

# Todd H. Albert, Ph.D.

## Strategic Engineering Leader | Cloud & Infrastructure Architect

30+ years Coding • 15+ years Leadership (iD) • 10+ years Cloud Transformation

Delray Beach, FL (open to relocate)

[toddalbert@gmail.com](mailto:toddalbert@gmail.com)

[linkedin.com/in/toddalbert](https://www.linkedin.com/in/toddalbert)

[github.com/toddalbert](https://github.com/toddalbert)

[medium.com/@toddhalbert](https://medium.com/@toddhalbert)

## Executive Summary

Visionary technology leader with a proven record of architecting and scaling resilient, secure, performant, and high-availability cloud platforms for global organizations. Adept at driving digital transformation, building and mentoring high-performing distributed teams, and delivering innovative solutions in regulated, high-growth environments. Hands-on with AWS, GCP, Azure, Kubernetes, SRE, DevOps, IaC, and cost optimization. Trusted executive partner skilled at aligning tech strategy with business goals.

## Professional Experience (selected)

### VP of Engineering

CYPHER Learning, Plano, TX (Remote)

Oct 2024 – present

- Spearheaded cloud modernization and Agile transformation for a global SaaS learning platform, integrating AI and automation across all business units
- Led a distributed team of 32+ across engineering, DevOps, QA, and integration, managing a \$4.4M budget driving the transformation to Agile practices
- Drove cloud infrastructure optimization and cost reduction initiatives, boosting performance and resilience at scale and reducing spend by over \$1.2M/yr
- Presented quarterly technology roadmaps, progress, and financial metrics to the Private Equity board of directors, translating tech vision into business impact and operational efficiency
- Instituted real-time data insights and end-to-end security, aligning with regulatory standards (e.g. SOC-2, GDPR, EAA)

### VP of Application Development

Site Impact, Coconut Creek, FL (Hybrid)

Jan 2024 – Sep 2024

- Architected and launched a highly scalable, cloud-native AdTech platform, supporting billions in projected revenue and high transaction volumes
  - Replatformed core systems for multi-region availability, leveraging AWS, GCP, and Azure saving an estimated \$600k/yr
  - Built and led a world-class engineering team, instilling SRE and DevOps best practices, CI/CD automation, and observability from the ground up
  - Revitalized a stalled \$4.3M project, delivering it successfully after 2.5 years of missed deadlines by re-architecting the platform, simplifying the tech stack, and improving team processes
  - Managed global and cross-functional teams, vendor relationships, and a \$3.6M budget
  - Championed adoption of Infrastructure-as-Code, GitOps, and automated deployment pipelines
  - Created and presented Board Decks quarterly, took part in quarterly executive business and strategy plannings, presented at quarterly Town Halls, created and monitored SMART goals for my direct reports, held 1-on-1 meetings with reports, responsible for communication up and down chain, and participated in
- Senior Leadership Training and Assessments** (I'm an iD; DiSC Assessment available upon request)

### CTO

Tap•In, Boca Raton, FL (Hybrid)

Jan 2024 – present

- Oversaw and led in-house and off-shore development teams
- Architected and launched a highly scalable, cloud-native networking platform designed for multi-region availability

### Interim CTO

Hemp Temps, Lighthouse Point, FL (Hybrid)

Oct 2023 – Jan 2024

- Recruited and hired a team of engineers, coded, and lead the initial development and product design of the staffing and learning platform
- Recruited the full-time CTO

### CTO

Edgy Nerd, Boca Raton, FL

Jan 2020 – Feb 2024

- Led architecture and development for AI-powered SaaS and fintech platforms, including real-time payment processing and analytics across AWS, Azure, and GCP for a diverse client base
- Designed cloud solutions for regulated industries, ensuring uptime, compliance, and security
- Engineered and scaled a nationally recognized AI diarization application, demonstrating expertise in building resilient and performant AI-driven platforms
- Built and managed multiple high-performing teams, overseeing project delivery, client relations, and P&L
- Implemented and managed CI/CD pipelines, ensuring rapid and reliable software delivery

### Head Software Engineer

MyPhoto (Polaroid Photo Bar), Delray Beach, FL

Apr 2017 – Sep 2020

- Led architecture, data engineering, design, development, cloud architecture, integrating CI/CD pipelines, security, and deployment of a custom e-commerce platform in under 6 months; led transformation from PHP to Node.js and React
- Migrated to multi-cloud infrastructure with industry-leading performance while increasing conversion rate from 2 to 10% and cut bounce rate in half
- Automated production processes to cut production time by 66% and increase productivity 10x using AI and computer vision technology built with Python, React-Native, and Electron
- Invented “instant upload” technology to speed up and enhance user experience

### CTO

Nebular Agency, Boca Raton, FL

May 2015 – Apr 2017

- Managed up to 7 concurrent projects and teams, architecting and delivering solutions for enterprise clients including PBS Kids, AccuWeather, Ally Bank, and Sprint
- Launched major projects across AWS, GCP, and Azure, leading the migration of key platforms from AWS to GCP to optimize performance and cost
- Developed an industry-leading AI and AR-enabled mobile photobooth platform with over \$5M in SaaS revenue

## Education

Florida State University, **Ph.D.**  
University of Colorado, **NASA Research Fellow**  
The Ohio State University, **M.S.**  
University of Florida, **B.S.**

May 2007  
Aug 2001 – Aug 2004  
Dec 2000  
May 1998

## Key Skills

- AI
- Cloud Architecture (AWS, GCP, Azure)
- Multi-Region Scalability
- SRE
- DevOps
- Infrastructure-as-Code (Terraform, CloudFormation)
- Kubernetes
- CI/CD Automation
- FinTech Platforms
- Regulatory Compliance (e.g. GDPR, EAA)
- Cost Optimization
- Executive Stakeholder Management
- Distributed Team Leadership
- Product Strategy
- M&A Cloud Integration
- Serverless
- Systems Engineering
- Technical Writing

## Publications (selected)

- Albert, T.H., 2021, Deploying an Express API to Google App Engine, <https://medium.com/boca-code/deploying-an-express-api-to-google-app-engine-ac7a188c6608>
- Albert, T.H., 2021, Deploying an Express API on Firebase Hosting, <https://medium.com/boca-code/the-basic-process-is-that-we-will-use-firebase-cloud-functions-to-create-a-single-function-app-13ba3b852077>
- Albert, T.H., 2021, Creating an Express API Step-by-step, <https://medium.com/boca-code/creating-an-express-api-step-by-step-cb7b9aab7b6>
- Albert, T.H., 2021, Why does talent leave South Florida, <https://medium.com/boca-code/why-does-talent-leave-south-florida-b7cbc5339e83>
- Albert, T.H., 2021, When to fire a client, <https://toddhalbert.medium.com/when-to-fire-a-client-9c56989d98f3>
- Albert, T.H., 2021, Women in Tech, <https://medium.com/boca-code/women-in-tech-49861db01e82>
- Albert, T.H., 2021, Frustrating loops, <https://toddhalbert.medium.com/frustrating-loops-a3d3df84415b>
- Albert, T.H., 2021, The scary leap of changing careers, <https://toddhalbert.medium.com/the-scary-leap-of-changing-careers-11dd29c488f5>
- Albert, T.H., 2021, Pumped! Scholarship Awards, <https://toddhalbert.medium.com/pumped-scholarship-awards-7c2b78d87e17>
- Albert, T.H., 2021, Our first cohort – reflecting on the last 10 weeks... and 15 months, <https://medium.com/boca-code/our-first-cohort-reflecting-on-the-last-10-weeks-and-15-months-17118552ab6c>
- Albert, T.H., 2021, More jobs than coders — Boca Code rises to the challenge, <https://toddhalbert.medium.com/more-jobs-than-coders-boca-code-rises-to-the-challenge-fc75e1b47802>
- Albert, T.H., 2021, No, Alexa is not listening to you, <https://toddhalbert.medium.com/no-alexa-is-not-listening-to-you-2b173519996b>
- Albert, T.H., 2020, Why I Switched from Kubernetes to Firebase Hosting, <https://toddhalbert.medium.com/why-i-switched-from-kubernetes-to-firebase-hosting-ae1fdac62439>
- Albert, T.H., 2018, The Online Dating Algorithm, <https://medium.com/nebular-agency/the-online-dating-algorithm-38a7f63bb8f1>

## Peer Reviewed (selected)

- Albert, T.H., 2016, C. Huggel, A. Racoviteanu, Y. Arnaud, W. Silvero, and A. Klein, Northern Andes, in Global Land Ice Measurement from Space, edited by J. Kargel
- Albert, T.H., 2010, Glaciers: Continental, in *Encyclopedia of Geography*, edited by B. L. Warf, Sage Publishing. **Winner of "Outstanding Reference Source" award by the American Library Association.**
- Albert, T.H., 2002, Evaluation of remote sensing techniques for ice-area classification applied to the tropical Quelccaya Ice Cap, Peru, *Polar Geography*, 26 (3), 210-226.
- Albert, T.H., 2008, Assessment of glacier mass balances from small tropical glaciers to the ice sheet of Greenland, VDM Verlag Dr. Mueller e.K., Saarbrücken, Germany, 160 pp..
- Albert, T.H., 2007, Assessment of glacier mass balances from small tropical glaciers to the large ice sheet of Greenland, Ph.D. Dissertation, Florida State University, Tallahassee, Florida.
- Albert, T.H., 2004, Measuring and modeling surface height changes on the Greenland ice sheet: Pâkitsoq ablation zone, west-central Greenland, pp. 37, University of Colorado, Boulder, Colorado.
- Steffen, K., N. Cullen, R. Huff, S. Starkweather, T.H. Albert, and M. McAllister, 2004, Variability and forcing of climate parameters on the Greenland Ice Sheet: Greenland Climate Network (GC Net), pp. 30, University of Colorado, Boulder.
- Steffen, K., N. Cullen, R. Huff, S. Starkweather, and T.H. Albert, 2003, Variability and forcing of climate parameters on the Greenland ice sheet: Greenland Climate Network (GC-Net), pp. 29, University of Colorado, Boulder.
- Albert, T.H., 2002, A high-resolution ablation study near Illulisat (Jakobshavn) on the Greenland Ice Sheet, pp. 10, University of Colorado, Boulder, Colorado.
- Steffen, K., J.E. Box, N. Cullen, and T.H. Albert, 2002, Variability and forcing of climate parameters on the Greenland Ice Sheet: Greenland Climate Network (GC Net), pp. 22, University of Colorado, Boulder.
- Steffen, K., J.E. Box, N. Cullen, and T.H. Albert, 2002, Greenland ice sheet climatology and surface energy balance modeling: Greenland climate network (GC-Net), pp. 24, University of Colorado, Boulder.
- Albert, T.H., 2000, Investigations of the recent changes on the tropical Quelccaya Ice Cap, Peru, Masters thesis, Ohio State University, Columbus, Ohio.