

Mitchell E. Golden

50 W 96th St Apt 5B
New York, NY 10025
(917) 476-7791
mgolden@mitchgolden.com

<https://www.linkedin.com/in/mitchgolden>
<https://github.com/mgolden>

A technology leader who also does.

Experience

12/2025 – present | Freelance software developer and manager, Textbook author

- Clients: Stellark Solutions, Noodle.com
- Authoring an introductory/intermediate textbook on Electromagnetism based on a novel way to present the subject, as described in a journal article I published in the American Journal of Physics.

10/2024 – 10/2025 | Capital One Bank | Manager, Software Engineering

- Led a team developing new “Data Products”, which contain information about Capital One customers and their interactions with other financial institutions. Among other things, this data allows Capital One to understand its customers better and to lower consumer costs by reducing fraud.

2/2021 – 8/2024 | Amazon | Software Development Engineer

- On a team that developed a network for Amazon services in AWS Virtual Private Clouds (VPCs), enabling services to go to AWS from a legacy datacenter, thereby reducing costs and deployment times.
- Using AWS Cloud Development Kit (CDK), authored a tool that deploys VPCs with customer-selected configurations. Tool was used to launch the new network, allowing a successful on-time start of the beta.
- Mentored 4 developers as they came aboard during RTO after Covid.
- Created the team coding standard, reducing conflict and improving code review velocity by about 30%.
- Was the team’s top coder (lines of code / number of code reviews) and a major generator of ideas.

11/2019 – 1/2021 | Carnegie Learning | Freelance Technical Consultant

- Created two Proofs of Concept for Carnegie Learning, a company which creates curricula for middle- and high-school math, via a web-based system called a “Cognitive Tutor”: 1. An authoring system for tutoring materials with a framework to reduce labor by streamlining the company’s UX and base technology. 2. Virtual classrooms with video conferencing and on-screen real-time student scores.

1/2019 – 11/2019 | Barneys New York | VP of Information Technology

- Returned to Barneys New York as VP of IT. Barneys filed for Chapter 11 in 2019, and closed in 2020. By time of rehiring, the company was already in financial difficulty.
- Made the company attractive to buyers through stringent management of expenses, and by planning for continuation of operations after a sale. Launched initiatives to move legacy systems to cloud providers.
- Reduced shipping times by about 3% and reduced costs by improving the Buy Online Ship from Store functionality, through a data-driven mathematical model.
- Improved customer satisfaction through the successful deployment of Barneys Loyalty program, which integrated Epsilon and SessionM. This generated millions of dollars of sales within two months.
- Kept IT employee morale up during a difficult bankruptcy, via a policy of transparency and directness. Few employees left, and the department functioned well, even as financial issues accumulated.

9/2014 – 1/2019 | Noodle | Chief Technology Officer

- Founding member of management team of Noodle (then Noodle Partners), a company which helps universities bring their degree programs online by recruiting students, providing technology to run online classes, and sustaining a social experience for students.
- Motivated a drive to simplify the original business plan by decreasing the number of vendors, resulting in simpler operations and more functions being performed by in-house teams.
- Enabled the company’s first sales to universities by managing the creation of the business software, and software integration of vendors and customers. Four clients were onboarded in the first two years.
- Directed coding for open-source Sakai Learning Management System, which runs university courses.
- Delivered an online tutoring platform from scratch for Noodle’s subsidiary Inspirica. The online business was successfully launched and was immediately used by over 100 tutors.

9/2012 – 9/2014 | Barneys New York | VP of Technology

- Hired a team of developers to build out workflow software for product descriptions, photographs, and position on the site, while integrating company’s pricing and inventory systems. Implemented site tools such as automated sizing and A/B testing. Sales quickly doubled and the web site became a powerhouse which competed with the Madison Avenue flagship for the title of largest sales volume.

9/2010 – 8/2015 | Jun Group | Co-founder, Board Member

- Invited to rejoin the Board (see below for founding) after the company gained clients such as Chrysler, Pfizer, and Microsoft. Helped guide the company to a \$28 million investment from Halyard Capital and a sale to Advantage Solutions. Jun Group was later acquired by Verve Group for \$185 million.

7/2001 – 9/2012 | Gucci | E-Commerce Technical Director

- Sole developer of the original gucci.com site, which proved the business viability of an online luxury store. Immediately profitable, the site justified a significant investment in follow-on projects.
- Ran hiring and development, and software architect of the site. Gucci.com was one of the world's first global e-commerce sites - particularly advanced compared to other fashion companies.
- Gucci's internationalized site quickly opened in US, Canada, Europe, Australia, China, Japan, Korea.
- Kept costs down by efficient hosting - the global site ran on only two servers at Rackspace.
- Gucci.com was quickly profitable and revenues soon came to rival the company's largest stores.

7/2001 – 9/2007 | Jun Group | Co-founder, CTO

- With a partner, created the company as a web shop. Initial revenue came from servicing several clients.
- Company was an online-marketing specialist, which ran innovative campaigns through music and video file trading. Clients included major TV networks, Hearst-Argyle TV/Steve Winwood, and Coca-Cola.
- Built a system to place sponsored music videos on file-sharing networks. Brought aboard a partner with expertise in file sharing and hired a tech team, which created mini-sites for the file sharing campaigns.

7/1998 – 7/2001 | Agency.com | VP of Technology, New York

- Funded by the media company Omnicom, Agency.com was one of the largest web shops of the time, with well-known customers such as British Airways, Coca-Cola, and Gucci. Managed 35 employees.
- Delivered improvements in customer satisfaction, with better department efficiency and morale.
- Drove sales by selling company's technical capabilities to potential customers.

Teaching

Professor of Physics | Harvard University

- Taught undergrads and grads. Created a new course, Physics 16A, which is still in the catalog.
- Did research on fundamental physics (including the Higgs Boson), winning fellowships.

Education

Ph.D. in Physics, University of California at Berkeley

A.B. in Physics, Princeton University

Areas of Expertise

Leadership and Management <ul style="list-style-type: none">• Decision making in fast-changing environments.• Collaboration with non-technology colleagues.• Interviewing, hiring, and mentoring.• Communications, including public speaking.• Customer interaction.• Business analysis and technology interface.	Technology <ul style="list-style-type: none">• Systems Architecture.• Coding with AI• Problem analysis and model building.• Development methodologies – Agile or waterfall.• Web technologies.• Networking, Cloud hosting.
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Technology and Programming

Languages: java, TypeScript (node.js), Javascript, go, C/C++, python, ruby, perl, Visual Basic

Databases: PostgreSQL, DynamoDB, Mysql, MongoDB, MSSQL, Oracle

Web frameworks: Django, Flask, Jinja, Rails, PHP, ColdFusion, ASP, D3, jQuery, Angular

Cloud: AWS (including Pipelines, CDK, SDK), Akamai

Project Management: Scrum, XP, waterfall; git, subversion, cvs

Commerce: Salesforce Commerce Cloud (Demandware), JDA

Misc: eBPF, Jitsi meet, Bootstrap, pandas, Tokbox, Mapbox, firebase, Twilio, Swagger, Mathematica

Open Source contributor: first PHP Oracle connector. Audacity sound editor. Sakai Learning Management System.