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A technology leader who can also do.

Experience

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

➢ Leader of 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 will allow Capital One to understand its customers better and lower consumer costs by reducing fraud.

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

➢ Member of 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), personally authored a tool that deploys VPCs with customer-selected configurations. This tool was used to launch the first 5 services in the new network, allowing a successful on-time start of the initial project 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 saved the company money 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 (formerly 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.
➢ On Noodle's behalf, made direct contributions to the open-source Sakai Learning Management System, used by universities to run courses. Hired freelancers to implement new features. Presented the work at Sakai conferences, gaining publicity for the company and attracting several clients.
➢ Delivered an online tutoring platform from scratch for Noodle's subsidiary Inspirica (formerly Noodle Pros). Architected the software and managed the team that built the system, which was on time and on budget. 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. The site was immediately profitable, justifying a significant investment in follow-on projects.
➢ Hired developers to implement and was the software architect of the site. Gucci.com was one of the world's first global e-commerce sites - especially advanced compared to other fashion companies.
➢ The site was fully internationalized, and was quickly expanded to serve the US, Canada, almost all of Europe, Australia, China, Japan, and Korea soon after launch.
➢ 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.
➢ Transitioned the business model to that of online-marketing specialist, which ran innovative campaigns for consumer products through music and video file trading. Clients included major TV networks, Hearst-Argyle television/Steve Winwood, and the Coca-Cola company.
➢ Reviewed contracts and negotiated deals. Avoided substantial legal expense while minimizing risks.
➢ Built a system to place sponsored music videos on file-sharing networks. To that end brought aboard a partner with expertise in file sharing and hired a small tech team, which created mini-sites for the file sharing campaigns. This launched a business that is still in operation today.

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

➢ Funded by the global 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. After the company's acquisition of several smaller shops, managed 35 employees.
➢ Improved department morale by salary rationalization, and supplied necessary staff by doing all NY technical hiring. Payroll was reduced by about 25% without overburdening developers.
➢ Improved communications with customers' tech departments and raised customer satisfaction by participating in all project kickoffs, acting as fallback technical contact for all development in NY.
➢ Improved efficiency by creating management and development methodologies for all technical work, resulting in employee utilization of 89%, the highest of any department.
➢ Helped drive sales by regularly presenting the 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	Technology
• 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.	• Systems Architecture. • Heads-down coding. • Problem analysis and model building. • Development methodologies – Agile or waterfall. • Web technologies. • Networking, Cloud hosting.

Technology and Programming

Languages: TypeScript (node.js), Javascript, go, python, java, ruby, C, C++, perl, Visual Basic
Databases: Mysql, Oracle, MSSQL, PostgreSQL, MongoDB, DynamoDB
Web frameworks: Django, Flask, Jinja, Rails, PHP, ColdFusion, ASP, D3, jQuery, Angular
Cloud: AWS, AWS Pipelines, CDK, 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.