Bryce Pollack

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EDUCATION

University of California San Diego — June 2024

Bachelor of Science in Mathematics and Computer Science, GPA: 3.8

- Coursework: Data Structures, Algorithms, Software Engineering, Operating Systems, Computer Architecture, Computer Networks, Computer Security, Deep Learning

EXPERIENCE

Capital Group | Software Engineer — September 2024 – Present

C#, Python, TypeScript/JavaScript, Vue, PostgreSQL

- Spearheaded migration of on-premises accounting applications to a cloud-native microservices architecture, enhancing scalability and modularity while enabling an estimated $2M in annual cost savings across the organization
- Built and maintained ETL pipeline processing 50,000+ daily financial transactions across 20+ reports, working closely with stakeholders to meet reporting requirements and SLAs
- Revamped CI/CD pipelines by adding automated regression testing, infrastructure-as-code for environment provisioning, and integrated monitoring and alerting, cutting average release times by 40%

Naval Information Warfare Center Pacific | Software Engineer Intern — June 2023 – December 2023

C++, Python, JavaScript

- Developed packet analysis library to translate raw network traffic from shipboard messaging systems into human-readable format, leading to the identification and resolution of 8 critical message formatting bugs
- Deployed new scripts to simplify configuration management, reducing XML configuration files by over 200 lines each and improving maintainability and developer productivity
- Refactored legacy front-end components of a network diagnostic tool from a Windows-specific framework to a cross-platform solution, allowing the tool to run on new hardware

University of California San Diego | Lead IT Technician & Software Engineer — September 2021 – September 2024

TypeScript/JavaScript, Python, React, MySQL

- Led a team of 8 engineers in developing new tools to streamline help desk workflows, including an interface for tracking inventory, a Chrome extension to enhance ServiceNow's UI, and dashboards to monitor KPIs, reducing average ticket resolution time by 15%
- Designed and implemented a DMCA compliance platform to automate copyright violation processing and provide technicians with a unified system for case management, cutting manual workload by 50% and ensuring full compliance with copyright laws
- Provided enterprise support for university accounts, networks, and hardware to customers over the phone, in person, and through ServiceNow
- Managed hiring and onboarding processes, including reviewing applications, conducting interviews, preparing training materials, and mentoring 40+ new hires

PROJECTS

Context Encoder

github.com/brycepollack/ece176-finalproject

- Reimplemented an image inpainting model trained on Places365 dataset, integrating GANs to reduce L2 reconstruction loss and improve perceptual quality compared to Pathak et al.'s Context Encoders

Markdown Notes App

github.com/brycepollack/project-grizzly

- Developed a note-taking web application with live Markdown previews, syntax highlighting, and customizable file systems, incorporating a backend server and API to manage user-file relationships and enable data retrieval from a database

SKILLS

Programming Languages: Python, Java, C#, C++, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks & Libraries: Spring, .NET, Node.js, React, Vue, Next.js, GraphQL

Developer Tools & Platforms: Git, Docker, Kubernetes, AWS, Terraform, MongoDB, Splunk, Grafana