Bryce Tsuyuki

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Education

University of California, San Diego   *3.93 GPA*
B.S. IN COMPUTER SCIENCE, MINOR IN POLITICAL SCIENCE   *Sep. 2019 - Jun. 2023*
- **Regents Scholar:** scholarship awarded to **approximately 1% of students** based on academic excellence
- **Courses:** Software Engineering, Security, Network Services, Data Structures/Algorithms, Architecture/Software Optimization, Operating Systems

Work Experience

Gusto   *San Francisco, CA*
SITE RELIABILITY ENGINEER   *Aug. 2023 - Present*
- Working on the Compute Infrastructure team to build resilient and secure systems to allow engineers to run code in a scalable and accessible way

Meta   *Menlo Park, CA*
PRODUCTION ENGINEERING INTERN   *Sep. 2022 - Dec. 2022*
- Automated validation of the turnup pipeline in **Python** for new clusters for Warm Storage, a hyperscale storage solution
- Incorporated automation of block level and metadata cluster turnups, with asynchronous health checks to monitor clusters over time
- Developed unit tests with the **TestSlide** framework and Python's **unittest** library, along with integration tests for file operations and stress testing
- Enabled the deployment of **petabytes** of idle storage clusters with the assurance that they would be deployed correctly

Gusto   *San Francisco, CA*
INFRASTRUCTURE ENGINEER INTERN   *Jun. 2022 - Sep. 2022*
- Automated detection of end of life versions for software like Ruby, Rails, Redis, PostgreSQL, and Nginx, sending notifications to Slack and Jira
- Improved flow for testing and updating detection functionality, decreasing number of required pull requests for updates by **90%**
- Enabled automatic updates and deployment for new Rails application templates to Backstage platform
- Managed Gusto's deployments and clusters on **Amazon Web Services** with **Terraform**, **Helm**, and **Kubernetes**

Amazon   *Remote*
SECURITY ENGINEER INTERN   *Jun. 2021 - Sep. 2021*
- Used Amazon's **AWS CodeGuru** platform to create command-line tools to automatically detect security vulnerabilities with **Java** and **Bash**
- Automated detection of **CORS** (Cross-Origin Resource Sharing) vulnerabilities via static analysis in web applications and services
- Deployed tool to CodeGuru platform to surface potential CORS vulnerabilities across Amazon codebase

UCSD Computer Science and Engineering Department   *San Diego, CA*
INSTRUCTIONAL ASSISTANT   *Jan. 2021 - Mar. 2021*
- Served as student instructional assistant and grader for Data Structures I and Software Tools courses for **600+ undergraduate students**
- Taught concepts like **linked lists, stacks, binary search trees, Linux CLI, and Bash scripting** in guided lab hours and one-on-one sessions
- Answered **100+ tutor request tickets** with **99% positive feedback rate**

Leadership

Association for Computing Machinery at UC San Diego   *San Diego, CA*
VICE PRESIDENT EVENTS   *May 2021 - May 2022*
- Managed room scheduling, funding, and logistical pipelines for **100+ events** for 2021-2022 academic year using **Notion** for team logistics
- Led **team of 9** in hosting technical workshops, interview preparation, professional development, AV management, and event logistics
- Oversaw reorganization of ACM's events team, integrating entrepreneurship and software engineering workshops into the team's portfolio

Projects

ACM Profiles: Social media aggregation and sharing platform [GitHub link]   *Oct. 2020 - Jan. 2021*
- Product Manager: led team of 7 engineers, established deadlines, reviewed all pull requests, and conducted weekly standup meetings
- DevOps Engineer: built code quality linting and CI/CD pipeline in **Travis**, deployed **React** frontend and **Django** backend to **Netlify** and **Heroku**
- Used **Docker** and **docker-compose** alongside PostgreSQL to ease local database testing for the team's developers

SafariSideloader: Script to convert WebExtensions into Safari 14.0+ compatible format [GitHub link]   *Jun. 2020*
- Used **Python** to download, extract, and convert WebExtensions from the Chrome Web Store for use in Safari 14.0+
- Built script as a wrapper around Apple's Xcode conversion tools to automate generation of template applications with Safari extensions

Skills

Languages	Java (including Android), Python, Ruby, C, C++, Golang, PowerShell, Bash, JavaScript
DevOps	AWS, Google Cloud, Microsoft Azure, Docker, Kubernetes, Helm, Terraform, VMware, Heroku, Travis CI, Buildkite
Tools/Frameworks	Jira, Notion, Git, Linux, GDB, Valgrind, Makefiles, Bundler, PostgreSQL, Django, TestSlide, Python unittest
Hobbies	Building PCs, Gaming (Pokemon Go, Team Fortress 2, Civilization V), reading technology news, Eagle Scout