

Willie Jiang

williej926@gmail.com · linkedin.com/in/williej926 · github.com/williej926 · 408-338-8246

Education

University of California, Irvine, B.S. in Computer Science September 2020 – December 2023

Experience

Apple, Software Engineer Intern June 2023 – September 2023
Austin, TX

- Designed and implemented end-to-end CI/CD pipelines, reducing deployment time by 15% and minimizing operational risks.
- Led a design sync initiative, fostering collaboration among engineering teams and improving user satisfaction with the pipeline.
- Developed and optimized Python and Bash integration scripts, enhancing overall pipeline functionality and performance.
- Leveraged APIs and implemented critical library changes for pipeline compatibility to automate usage of CLI tools.
- Automated critical deployment paths, minimizing manual errors and boosting team productivity by reducing initial setup time by 15 minutes.

University of California, Irvine, Research Assistant October 2023 – Current
Irvine, CA

- Conducting part-time research on Norm-Balanced Attention Mechanisms in Transformers.
- Investigating the effects of balancing norms of Query (Q), Key (K), and Value (V) matrices in transformer models.
- Comparing norm-balanced transformers with unmodified models.
- Measuring for accuracy and loss, gradient stability, diversity and entropy in attention maps.

Projects

Shopify Product Monitor

- Developed a Python-based system using requests and BeautifulSoup to monitor newly published products on Shopify stores in real-time.
- Integrated webhook integrations with Slack and Discord, facilitating instantaneous alerts for new product uploads.
- Incorporated rapid checkout functionality with checkout links, empowering users to secure high-demand products within seconds of release and substantially boosting purchase success rates.
- Contributed to the successful checkout of 500+ limited goods across 20 users in a span of 1 year.

Google Cloud Proxy Generator

- Developed a tool to automate the creation of server instances on Google Cloud's free tier using the Google Cloud SDK for proxy usage saving users \$1 per proxy.
- Implemented Squid deployment for tunneling capabilities, enabling robust proxy functionality on server instances.
- Engineered a system for concurrent subprocess execution, significantly improving server creation efficiency to save approximately 1 minute per server.
- Generated user-friendly IPV5 proxy lists, offering a cost-effective alternative to paid VPN services resulting in significant cost savings exceeding \$250 per month for users.

Skills

Programming Languages: Python, C++, Dart, Java, Swift, Clojure, JavaScript, SQL

Frameworks: Flutter, Flask

Software: AWS, Jenkins, Git, Splunk, Docker