

JOHNSON NGUYEN

San Jose, CA || Berkeley, CA

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EDUCATION

University of California, Berkeley

Expected: May 2024

Bachelor of Arts in Data Science (Business and Industrial Analytics), Minor in Computer Science

- **Relevant Coursework:** Algorithms, Artificial Intelligence, Computer Programs, Computer Security, Data Structures, Data Science Foundations, Data Science Principles, Information Devices and Systems I & II, Machine Structures, Calculus I & II, Multivariable Calculus, Discrete Mathematics & Probability Theory, Statistics, Macroeconomic Principles, Microeconomic Theory
- **Current Coursework:** Probability for Data Science, Databases, Data Ethics

WORK EXPERIENCE

Tesla

Fall 2023

Software Test Engineer Intern

Palo Alto, CA

- Incoming Software Test Engineer Intern in the Infotainment Systems Team

Intuitive

Summer 2023

Software Development Engineer In Test Intern

Sunnyvale, CA

- Incoming Software Development Engineer In Test Intern in the API Platforms Team

Rocket Lawyer

January 2023 - March 2023

QA Software Engineer Intern

San Francisco, CA

- Worked as a QA Software Engineer Intern in the Rocket Lawyer Global App Team, developed a new testing framework in Jest for application UI testing and migrated Cucumber BDD/Gherkin tests to Playwright for a global app
- Automated frameworks for backend and frontend API services using Mocha, caching dependencies/artifacts and parallelizing compilation with different build agents on Google Cloud Build to improve build speed by 23%, measured by VSCode's and GCB's performance profiler
- Developed infrastructure for streamlined CI/CD and internal tooling to monitor Kubernetes/Docker workflow

BAE Systems Incorporated

May 2022 - August 2022

Software Engineer Intern

San Jose, CA

- Worked in Testing and Integration on the Armored Multi-Purpose Vehicle (AMPV) Team, developing and testing sequences using Python, C++, Linux Shell Scripting, and other tools and frameworks
- Developed a multi-threaded full-stack application for SSH/SCP operations and internal tooling with a GUI, integrated into a NI Teststand for simulating AMPV conditions
- Performed MariaDB integrations into third-party applications and AMPV software for asynchronous and synchronous requests for test logs, maintained with Grafana LogQL
- Employed unit and regression testing in testbeds for dry run outputs containerized in Docker, shipped to data visualization tools

UC Berkeley EECS Department

August 2021 - Present

CS61A (Computer Programs) Academic Intern

Berkeley, CA

- Assist 30+ students in labs with debugging and reinforcing programming concepts
- Give guidance to students on assignments, projects, and course material
- Teaching topics include Python object-oriented programming, trees, Scheme, and SQL

PROJECTS

Better UC Irvine Catalog (Ongoing) — Python, HTML/CSS, React

- Developed a simple application for the University of California, Irvine course catalog to display class information by quarter
- Implemented a Python script using Selenium to simulate the catalog websocket and navigate the site, crawling all HTML page source content for class names, availability, professors, and grade distributions
- Includes a simple calendar to display class conflicts between proposed schedules
- Parsed metadata using BeautifulSoup and RegEx to convert to a Pandas dataframe, to be packaged to full-stack application for auto-sorting, search, and graphing features

Cryptographic File System — Golang

- Designed and developed a secure file system that emulates Dropbox, supporting creating, editing, and sharing files between multiples users with support for concurrency across multiple user sessions
- Confidentiality of user accounts and file contents are secured using Argon2 hashing, AES cipher block chaining encryption scheme, HMAC verification, HashKDF encryption, and Public-Key Encryption

Gitlet — Java

- Developed a simple version control system based on Git from scratch
- Designed internal file structures with a SHA-1 hashing storage system to prevent collisions with various features for modifications
- Implemented a constant time lookup storage system for commits across multiple branches using trees
- Features include file tracking, branching, backup commits, merging, and remote usage

TECHNICAL SKILLS

Languages

Java, Python, JavaScript, TypeScript, CSS/HTML, C, Golang, SQL, RISC-V Assembly, Scheme

Tools

Git, LaTeX, Valgrind, NumPy, Scikit-learn, Intel AVX, Matplotlib, RegEx Parsing, Microsoft Office, Selenium Webdriver, JUnit, Playwright, Pandas, Jira, Confluence, Grafana, Tkinter, Paramiko