Burwin Liu

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Education

University of California, Irvine June 2022
Bachelor of Science, Computer Science
GPA: 3.96
Relevant Coursework: Algorithms and Data structures, Python, C++, Artificial Intelligence, Machine Learning, Information Retrieval, Operating System, Microarchitecture, Web Applications + Database
Honors: Dean's Honors List (9 quarters)

Skills

Technical Languages: Python, C++, C, JavaScript, Java
Skills: Data Structures and Algorithms, Object Oriented Programing, Version Control (Git), Cloud Computing Technology (AWS), Linux/Unix, Relational Databases (MySQL, Postgres), Android Application Development, JavaScript Web Framework (React, Vue), Unit Testing, Integration Testing

Experience

Amazon SDE Intern June 2021 – Present
Intern
- Designed Serverless API, CI/CD Pipelines (Internal Tools) and infrastructure as code (CDK) for logical control of revenue management, with full team design approval
- Developed API (Lambda, API Gateway, Route 53) to automate, audit and version edits to global revenue control
- Augmented existing pipelines to fully automate build and deployment of business logic (Ant Scripts, Guice, REST API Consumer)
- Tested code and provided unit (JUnit and Mockito), and manual end to end testing documentation for testing coverage of deployed code
- Consistent feedback loop with various stakeholders and cross-team communication to ensure on target deliverables and final product

Schneider Electric Internship July 2020 – September 2020
Intern
- Implementing a version control GUI interface (Electron, ReactJS), interfacing with a git API
- Refactored and improved the performance of the application over several iterations, improving build times by over 90% and startup times by over 60%
- Weekly stand-up meetings, establishing specifications and showcasing prototypes
- Daily meetings with top executives, representatives and employees, discussing and experiencing Schneider's workflow, company model and future direction
- Networked and Connected with over 100 interns to generate a conducive environment for learning

Network Alignment Researcher (UCI Research on Graph Algorithms) March 2020 – March 2021
Undergraduate Researcher
- Compiled a database of Orthologs (Related Genes/Nodes between two graphs, found through biological research) of over 200 GB from over 25 separate data sources
- Discovered and compiled over 40 competing alignment algorithms and parsed over 10 of those algorithms to benchmark performance against Local Network Alignment algorithm
- Mentored and trained an undergraduate researcher with established systems and team tools