Grant Lam

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EDUCATION

University of California, Davis   **Davis, CA**
Bachelor of Science in Computer Science   Expected Graduation Winter 2016
- **CS GPA:** 3.7 / 4.0
- **Minor:** Statistics
- **Honors:** Dean's List, Golden Key International Honour Society

EXPERIENCE

Workday   **Pleasanton, CA**
Software Development Engineer Intern   June 2015 – September 2015
- Created a microservice to estimate the time it takes to process a given request based on historically similar request processing data
- Used Apache Hive to query hundreds of GB of data from Stats Warehouse, joining access logs from different departments
- Wrote R and Java code to build linear regression models, utilized streams API from Java 8 for parallel processing
- Populated Redis database with value/key pairings based on regression model
- Used Spring MVC Framework to create a servlet to allow queries on key/value pairs and deployed on local Jetty server

Micrel Semiconductor   **San Jose, CA**
Systems Intern   June 2014 – October 2014
- Programmed a Windows Batch Script to automate the presentations for FAB TV based on quarterly aspects
- Assisted in reverse engineering 25 years of Assembly Instructions (AIs) in a variety of formats, including PDFs and Word documents so that they may be added into a SQL database
- Analyzed and categorized AIs and wrote custom scripts to convert them to Excel files, then created packages in SQL Server Management Studio to import these Excel files
- Created reports in SQL Server Reporting Services and deployed them on Micrel's intranet

Computer Science Club Tutoring Committee   **Davis, CA**
Tutor   February 2014 – April 2015
- Assisted students in "Programming and Problem Solving" with pointers, memory allocation, strings, Makefiles, structures, and recursion in C
- Tutored students in "Algorithm Design and Analysis" with complexity of algorithms, bounds on complexity, analysis methods, searching, sorting, pattern matching, graph algorithms, algorithm design techniques: divide-conquer, greedy, dynamic programming, approx methods, NP-complete

ACADEMIC PROJECTS

Virtual Machine, Operating Systems and Systems Programming   June 2015
- Built a multithreaded VM on top of an abstracted machine layer, allocated memory in memory pools
- Used a mutex to guarantee exclusion in certain function calls, and mounted a FAT16 filesystem

Pollution vs Mortality, Regression Analysis   June 2015
- Performed a complete regression analysis on given data, including residual analysis, variable selection, diagnostics, etc and their justifications

SKILLS, ACTIVITIES & INTERESTS

Languages: Python, C/C++, Java, R, Bash shell, Windows Batch, SQL, Hive
Tools: Linux, Vim, GDB, Git, R Studio, SQL Server, Eclipse, Spring, Jetty, Redis, Gradle
Activities: CS Club at UC Davis, CS Club Tutoring Committee, UC Davis Boxing Club