

Jacob Armentrout

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PROFESSIONAL EXPERIENCE

ICS COMPUTING SUPPORT

Linux Administrator

Irvine, CA

Jan 2016 - Present

- Deploy and maintain hundreds of servers being used by thousands of UCI students and faculty
- Use a variety of configuration tools to provide custom environments for different user groups

HGST INC.

ASIC Validation Intern

Santa Ana, CA

June 2016 – Sept 2016

- Implemented a version control utility to increase management's visibility on software projects
- Developed independently and provided weekly status reports of my progress

WESTERN DIGITAL CORPORATION

Strategic Infrastructure Intern

Irvine, CA

Sept 2013 – Sept 2015

- Collaborated on a cross platform, end to end, automation system that launched test, logged results, and notified failures
- Presented completed project to customer; received best in class rating and approved for default test method
- Increased test throughput 200-300% compared to manual validation

Enterprise Storage Datacenter Technician II

Aug 2012 – Sept 2013

- Validated HDD performance and reliability by administering a series of benchmark tests
- Administered server preparations over a variety of the most popular storage configurations

PROJECTS

PYTHON

- Deployed a Django website to execute several computational geometry algorithms on user datasets
- Developed a version control utility to send tailored emails to users on commit
- Automated a series of HDD power cycle tests using Quarch Technology

JAVA

- Optimized an AI to compete in a connect-k tournament and scored in the top 10%
- Designed a web crawler that gathered web pages and used their information to build a search engine
- Managed the development of a website to search and shop for movies
- Produced a tutorial website with an administrator dashboard to edit tutorial content

C/C++

- Created a prompt that accepts linux shell commands and executes them, including redirects and piping
- Authored a multi-threaded client-server application that copies files from the server to the client
- Customized basic data structures: stack, queue, hash map, vector, set, priority queue, etc

ORGANIZATIONS

UCI APP DEVELOPMENT

President

Irvine, CA

Oct 2014 - Sept 2016

- Led officers in discussions about club productivity, funds, events, and recruitment opportunities
- Held workshops available to all UCI students to teach various software concepts and skills

EDUCATION

University of California, Irvine

June 2017

Bachelor of Science in Computer Science, specializing in Algorithms

Cumulative GPA: 3.424 | School GPA: 3.61