

Jamielynne Batugo

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TECHNICAL SKILLS

C/C++ Programming, Java Programming, Python, Android Development, HTML, CSS, JavaScript, MATLAB, LaTeX, Blender, Fushion360, Verilog, Xilinx, Git, Vim, Unix, VirtualBox

EDUCATION

Bachelor of Science in Computer Engineering
University of California, Santa Cruz, Santa Cruz CA

- Graduated: June 2017
- GPA: 3.20

RELEVANT COURSE WORK

Operating Systems, Software Engineering, Microprocessor System Design, Computer Architecture, Abstract Data Types, Properties of Materials, Electrical Circuits

WORK EXPERIENCE

April 2017 – June 2017

Tutor/Grader (Undergraduate) for Logic Design, *University of California, Santa Cruz*

- Provided feedback on students' written homework assignments and exams
- Worked on solving the problems as there were various viable solutions
- Answered students' questions on the class website

Sept 2016 – Dec 2016

Teaching Assistant (Undergraduate) for Microprocessor System Design, *University of California, Santa Cruz*

- Independently lectured lab sections of up to 20 students
- Debugged and evaluated students' programming assignments
- Stayed passed given allocated hours to provide extra help

PROJECTS

Sept 2016 – June 2017

Senior Design Project: Help Alert Home Assist Button, an effective and affordable health alert system for senior citizens

- Worked on networking protocols
- Designed the encasements for the devices built using Fusion360
- Programmed the microcontroller in C

March 2017

Operating Systems Project: Cryptographic File System

- Implemented a cryptographic file system in the FreeBSD kernel that encrypts on a per-file basis
- Created a system call which sets a key for the current user

March 2017

Operating Systems Project: Pageout Daemon

- Changed the behavior of the pageout daemon in FreeBSD which was responsible for deciding which pages to make available for replacement and which pages to flush back to disk

Feb 2017

Operating Systems Project: Lottery Scheduler

- Modified the FreeBSD scheduler to use lottery scheduling rather than the current scheduler
- Assigned each process the same number of tickets, then had it draw a ticket amongst those allocated to decide which process to run; the winning process ran for a set quantum time after which it is interrupted by a timer interrupt and the process is repeated

Sept 2016 – Dec 2016

Software Engineering Design Project: Secuure, a multiplatform application to keep track of users' passwords

- Worked with designing the frontend (Android Development team)
- Created a password generator
- Used agile team management by implementing Scrum
- Collaborated with teammates of GitHub, continuously integrated and deployed

HONORS AND AWARDS

Spring 2017

- Dean's Award from University of California, Santa Cruz

Fall 2013

- Dean's Honor List