Melvin Bosnjak

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Education

University of Utah		Salt Lake City, UT
BS Computer Engineering	**GPA: 3.33**	*December 2019*

Relevant Coursework:
- Software Practice I
- Algorithms
- Computer Systems
- Computer Organization and Design
- Software Practice II
- Computer Design Lab
- Computer Graphics
- Digital System Design

Skills and Qualifications

Software:

Java	C#	Android	Python
C	C++	Unity Game Engine	HTML
CSS	Javascript	Linux	macOS

Work Experience

Micron Technology Inc   Boise, ID
Applications Engineer Intern - Mobile Business Unit   *05/2018 – 08/2018*
- Developed an Android app that runs performance benchmark tests on mobile devices. Allows Micron to closely simulate the tests that OEMs run when qualifying Micron parts.
- Worked on flagship phones to create memory usage models for 4K streaming, augmented reality, virtual reality gaming, and 360 degree videos. Data resulted in better estimates of the future utilization of mobile devices and how that effects NAND memory.
- Gathered data for the Flash Memory Summit on how 5G network speeds will affect the usage of Managed NAND memory in the future.

University of Utah   Salt Lake City, UT
Tutor - Burbidge Academic Center   *8/2016 – 10/2017*
- Provided individual and small group tutoring to the several students a week.
- Tutor for Calculus 1, Calculus 2, Calculus 3 and Physics.

Intermountain Healthcare   Salt Lake City, UT
Food Service Specialist   *11/2015 – 8/2016*
- Provided service to patients, their families, and staff by assisting the food and nutrition department with their duties.
- Insured the patients received appropriate meals according to their dietary restrictions.

Technical Projects:

Space Wars Game:
- Created a multiplayer Space Wars game with a client side network controller and user interface that allows many clients to connect at one time.
- Added a server for the game that handles the game logic and sends game state back to each client using TCP.

Spreadsheet Program:
- Programmed and tested a spreadsheet application made up of cells capable of storing and calculating mathematical expressions.
- Added multi-user functionality similar to Google Docs where multiple clients would connect to one spreadsheet.

FFMPEG
- Worked with a team to modify ffmpeg to gain experience working with large and unfamiliar codebases.
- Developed new type of image file format and added read and write support within the ffmpeg libraries.

Personal Website:
- Created a personal website using HTML, CSS, Bootstrap, Javascript, NodeJS, and Express.
- Visit www.MelvinBosnjak.com for additional information about me and my current projects.