Mick Marchan

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Objective: To obtain a degree in Computer Engineering while participating in software engineering internships with the post-graduation goal of becoming a software engineer.

Education:

2011 – 2015: Mililani High School (Mililani, HI)
Valedictorian, Cumulative GPA: 4.22

2015-Present: University of Washington (Seattle, WA)
Class Standing: Senior (graduating in March 2019)
Cumulative GPA: 3.91   Major: Computer Engineering   Minor: Digital and Experimental Arts (DXARTS)
Notable Courses: Foundations of Computing I/II (Logic/Statistics) || HW / SW Interface / Systems Programming (C / C++) || Data Structures / Parallelism || SW Design and Implementation || Operating Systems || Digital Sound Synthesis / Signal Processing / Sound in Space (SuperCollider)

Skills and Abilities:

Communication Skills
- Effectively communicates technical solutions in layman's terms
- Experience leading and participating in the Scrum process
- Adept at leading discussions and presenting in front of others

Programming Skills
- Proficiency in Java, JavaScript, C, C++, Python, SuperCollider, and MatLab
- Experience with Front-End Web Development using Angular.js and Material Design
- Adequate knowledge of Git and Bash
- Experience with low-level C programming and FPGAs

Audio / Digital Signal Processing Abilities:
- Background in real time and non-real time audio processing through DXARTS and Sound Capstone
- Knowledge of ambisonics / spatial audio through DXARTS research seminar and head tracking project
- Experience with audio plugin development in C++

Miscellaneous Abilities
- Proficiency with music production, sound design, and audio engineering through FL Studio / SuperCollider
- Competent guitar player after 11 years of experience
- Knowledge of music theory and music composition
- Amazing dog sitter

Experience:

Software Engineering Intern at Microsoft (Redmond)
June 2018 – September 2018 (12 weeks)
Skills: C++, C, Git, Network Programming
Overview: I designed and implemented a solution that abstracted the USB transport layer of a Windows deployment tool to enable functional parity with network communication.

Software Engineering Intern at Cisco Systems (Seattle)
June 2017 – September 2017 (12 weeks)
Skills: Python, Docker, D3, AngularJS, Material Design, Git, JavaScript
Overview: I pair programmed with another intern to fully design and develop various applications to help improve the reliability and availability of a hardware dependent test suite.

Front-End Developer (Intern) at DataHouse
June 2016 – August 2016 (10 weeks)
Skills: AngularJS, Material Design, Git, bug testing, leadership, presentation, and Scrum
Overview: I collaborated with a group of software developers to help design, mock-up, and build multiple views and pages for various web-based projects in addition to meeting with clients to determine their requirements.

Networking Assistant at UW-IT Network Operations Center
November 2015 – June 2017
Skills: Bash, customer service, Python scripting, Cisco IOS, Junos, and general networking
Overview: I worked within a team that responds to network outages and issues, documents the troubleshooting, and manages incidents to resolution within the Washington K-20, Pacific Northwest Gigapop, PWAVE, and NorthernWAVE networks.

Awards and Honors:

2015-2018   University of Washington Certificate of High Scholarship (Dean's List)
November 2016   Microsoft Endowed Scholarship Recipient
August 2015   SkillsUSA National Championships: 6th in Internetworking

References available upon request