Alexander Banh

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EDUCATION

University of Washington   2015-2019 (Expected)
Second Year Student – Intended B.S. in Computer Science   Seattle, WA

- Current GPA: 3.75
- Annual Dean's List: 2015-2016
- <u>Relevant Coursework:</u> CSE332 (Data Structures and Parallelism), CSE311 (Foundations of Computing I), CSE142 (Computer Programming I, Java), CSE143 (Computer Programming II, Java), MATH125 (Calculus II), MATH126 (Calculus III)

Programming Languages

- Java | Javascript | Node.js | Ruby | Rails | Git | Swift

PROJECTS

Hangman   July-September 2016
Swift | xcode | iOS | MVC

- Created a Hangman game for iOS - https://github.com/wow1881/flybu-hangman
- Developed core hangman game model and integrated model with storyboard and view controller to create initial game version
- Refined and optimized app with a team of three, leading to several new features and a UI overhaul

Instacaption   October 2016
HTML/CSS | Bootstrap | Javascript | Clarafai API

- Created a web app which generates song lyric captions from an image - https://github.com/instacaption/instacaptionv2
- Built for Dubhacks 2016, developed front-end interface and assisted with javascript integration
- Designed two-column interface for easy access to photo upload and captions
- Worked within a team of five, maintained a positive yet productive environment

Huffman   March 2016
Java

- Developed a program which encodes text files with the Huffman coding scheme - https://github.com/wow1881/HuffmanProject
- Uses a priority queue to store characters based on frequency, which is then transformed into a tree where more frequent characters are near the root and less frequent are further down

EXPERIENCE

UW Society for Advanced Rocket Propulsion   2015-Present
Recovery Team – https://uw.useed.net/projects/145/home   Seattle, WA

- Developed and tested a redundant and reliable rocket recovery system
- Conducted extensive and varied tests on parachute deployment systems and recovery electronics
- Worked on steps to ensure uniform documentation and organization of key files and information

Hugs for Ghana   2012-2015
Webmaster/Co-President   Mukilteo, WA

- Organized culture night raising over $5000 in donations for medical supplies
- Obtained sponsorships from multiple local businesses and individuals
- Maintained and assisted with a website upgrade and redesign at www.hugsforghana.org via Wordpress