Nelson Liu

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TECHNICAL SKILLS

PROGRAMMING LANGUAGES
Java•Python•Javascript•Scheme
FRAMEWORKS / STACKS
Flask• Meteor • Ruby on Rails • Node.JS / MEAN Stack
FRONT-END DEVELOPMENT
HTML5•CSS3•Javascript,JQuery
BACK-END DEVELOPMENT
AJAX•MongoDB
TOOLS / UTILITIES
BASH•Git•SVN•GNU EMACS

EDUCATION

University of Washington, Seattle
Seattle, WA
Computer Science and Statistics

ACHIEVEMENTS

2015 – Winner, Hack The Dot Seattle
2015 – Finalist, AngelHack Seattle
2015 – First Place, California State Los Angeles ProgFest
2015 – Top 30 of 300+ projects, PennApps Winter 2015
2014 – Top 20 out of 120+ projects, HackPrinceton Fall 2014
2014 – Winner, Improving MIT Award, MIT BitComp 2014
2013 – Part One / Part Two Winner, IBM Master the Mainframe Competition

SOFTWARE PROJECTS

SoundHop | Finalist, AngelHack Seattle 2015
Summer 2015 | P2P Speaker System.

- Utilized Firebase to sync music playback across multiple devices, accounting for network lag as well.
- Worked with several other team members to develop the Android backend. Also worked on the application's material UI / UX.

WORK EXPERIENCE

UNIVERSITY OF WASHINGTON CSE

Wireless Lab Research Assistant
June 2015 – Present | Seattle, WA

- Working with ambient backscatter to wirelessly power devices and embedded systems.

MIT CSAIL

InfoLab Group Research Assistant
June 2013 – September 2014 | Cambridge, MA

- Worked with the START Natural Language Processing System and its backend, Omnibase.
- Wrote Scheme scripts to dynamically extract JPL and U.S. Election Atlas data for use in Omnibase.

UCSB BREN KELLER LAB

Research Assistant
June 2014 – July 2014 | Santa Barbara, CA

- Developed models to predict and model hydraulic fracture propagation in porous shale formations.

SOFTWARE PROJECTS (CONT.)

MYODRONE | Top 30 / 300+ projects, PennApps Winter 2015
January 2015 | An intuitive method of wearable drone control.

- Team lead role with focus on back-end development.
- Used the Thalmic Labs Myo armband and arm gestures to control a Parrot Drone with 8 degrees of movement.

FALANGAFONE | Top 20/120+ projects, HackPrinceton Fall 2014
November 2014 | An gesture-controlled music editing tool.

- Used the Leap Motion to enable live editing of .mp3 and other sound files via finger and hand gestures.
- Developed a Flask backend as well as a web front-end for the application, used the Pyo library to modify music on the fly.

BITSTATION | Winner of MIT Bitcomp Improving MIT Award
Summer 2014 | An online Bitcoin wallet for MIT Students

- Features certificate login, address books, and transaction annotation to promote peer-to-peer transactions among MIT students.
- Developed with Ruby on Rails in the span of 1 month.