

NELSON POLLARD

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[github](#): npollard

SUMMARY: Junior front-end developer (MS, 2 years work experience) interested in the full stack.

SKILLS

- Java, Android mobile development
- Web development: HTML5, CSS3, JavaScript, AngularJS, JSON, REST
- Python, Perl, Processing, C, Objective C (iOS), Lisp, SQL, NoSQL, XML, UML
- Environment: UNIX (Ubuntu, Mac OS X), Git, Android Studio, Eclipse, Maven, Ant
- Agile methodologies: Scrum, XP, Kanban

VOLKSWAGEN'S ELECTRONICS RESEARCH LAB

- Android: route guidance app; demo controller app (trigger stages of demo, monitor device connectivity)
- Prototyped web portal using Webflow, HTML, CSS, AngularJS, Android
- Created application in Python with PyQt GUI with self-contained Windows installer to divide video files where specific audio tones are detected (<https://github.com/npollard/videochop>)
- Added functionality to HTML/CSS/JavaScript app for user study
- Wrote “Marioland” animation in Processing for project demo
- Improved voice recognition via Google Speech API
- JavaFX front-end bug fixes

OTHER PROJECTS

- Worked on a team developing a cloud-based Android application to aid first responders (firefighters, police, EMTs) during emergencies
- Research project at CMUSV: machine learning via WEKA and Python to make short-term wind predictions (<https://github.com/npollard/windprediction>)
- Developed a suite of Perl scripts to generate and manage a Certificate Authority hierarchy for Stagecoach Wireless
- iOS app for Yaskawa America (North America's largest motor manufacturer) to assist their salespeople in selecting appropriate motors for potential clients based on size, torque, RPMs, accessories, etc. Team-based MINIX kernel development projects: memory allocation, locks and semaphores, en/decryption on file read/writes

EDUCATION

MS in Software Engineering, GPA: 3.86
Carnegie Mellon Silicon Valley
Graduated August 2014

BS in Computer Science, GPA: 3.73
University of California, Santa Cruz
Graduated June 2013

BOY SCOUTS

- Eagle Scout (Boy Scouts of America)
- Leadership experience – planning and running trips, meetings; managing groups of 5 – 20 people of varying ages; organized and carried out several service projects exceeding 100 man-hours