NELSON POLLARD

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SKILLS AND TOOLS

- Software development: Java, Processing, C, Objective C, Ruby, Python, Perl, SQL/NoSQL
- Mobile development: Android and iOS
- Web development: HTML, CSS, JavaScript, AngularJS, jQuery, XML, JSON, Ruby on Rails
- Environment: Eclipse, Android Studio, Webflow, Maven, Ant, Git
- Agile methodologies: Scrum, XP, Kanban

VOLKSWAGEN PROJECTS

- Sphere: currently developing web portal using Webflow and AngularJS
- VideoChop: created application in Python with PythonQt GUI with self-contained Windows installer to divide video files where specific audio tones are detected
- APEX: added functionality to HTML/CSS/JavaScript app for user study, implemented "Marioland" animation for FoFa demo in Processing
- Autopilot sidetasks: implemented voice recognition via Google Speech API, front-end bug fixes, HMIServer troubleshooting
- VI: developed Android app to control FoFa demo – trigger different stages of the demo, monitor device connectivity, interact with MFL

OTHER PROJECTS

- Developed as a team a cloud-based Android application to aid first responders to emergencies
- Carried out research using WEKA and Python to use machine learning to make short-term wind predictions
- Developed a suite of Perl scripts to generate and manage a Certificate Authority hierarchy for Stagecoach Wireless
- Developed as a team an iOS application for Yaskawa America to assist their salespeople in selecting appropriate motors for potential clients
- Team-based projects on a UNIX-like OS implementing memory allocation, locks and semaphores, and 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 through the 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