

# NELSON POLLARD

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[github](#): npollard

## 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, jQuery, XML, JSON, Ruby on Rails
- Environment: Eclipse, Android Studio IDEs, Maven, Ant frameworks, revision control with Git
- Agile methodologies: Scrum, XP, Kanban

## VOLKSWAGEN PROJECTS

- 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 apply machine learning to make short-term wind predictions
- Implemented as a team a search engine for Internet of Things (IoT) services – placed services listed on ProgrammableWeb in WSO2 registry and search using Lucene with Java.
- 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