

NELSON POLLARD

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SUMMARY

Full stack developer at NWEA for 5 years (7 years industry experience)

Agile development (mostly Scrum)

MS in Software Engineering from CMUSV

NWEA (2016 – present)

- Full stack cloud-based web development
- Java, Javascript (React, Angular, Node), HTML, CSS, Python, Jenkins
- AWS Cloud Services – Lambda, S3, DynamoDB, Cloudwatch, Cloudformation, Kinesis, IAM, Cognito, SNS, SQS, etc.

VOLKSWAGEN'S ELECTRONICS RESEARCH LAB (2014 – 2016)

Worked as a front-end developer on a variety of rapid-prototyping projects, including:

- Integrate IoT devices (Nest, GarageIO, etc.) with driving experience
- Volkswagen “driver profile” web portal: Webflow, Angular, Android
- Multimedia passenger entertainment for self-driving cars
- Android apps: route guidance; trigger stages of demo and monitor device connectivity
- Python application (with GUI) to divide video files where specific audio tones are detected (<https://github.com/npollard/videochop>) for user study
- Voice recognition via Google Speech API

STAGECOACH WIRELESS (2013)

- Developed a suite of Perl scripts to generate and manage a Certificate Authority hierarchy
- Installation and configuration of IP-based security camera networks for homes and businesses

NOTABLE SCHOOL PROJECTS

- Research project at CMUSV: machine learning via WEKA and Python to make short-term wind predictions (<https://github.com/npollard/windprediction>)
- Worked on a team developing a cloud-based Android application to aid first responders (firefighters, police, EMTs) during emergencies
- 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