

NELSON POLLARD

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SUMMARY

Senior Software Engineer at NWEA (now HMH) for 8 years – 10 years industry experience

Full stack developer for cloud-based apps for educators and students

AWS Certified Cloud Practitioner, AWS Certified Machine Learning

NCSU AI Academy Data Scientist Apprenticeship

MS in Software Engineering from CMUSV (3.86 GPA)

NWEA/HMH (2016 – present)

- Full stack cloud-based (AWS) app development with an emphasis on frontend
- Student test taking software, adaptive testing backend, REST APIs, CICD deployment tool, apps for educators to set achievement level standards, track class and student progress, generate reports
- Java, JavaScript (React, Angular, Node), Terraform, Jenkins, AWS

NORTH CAROLINA STATE UNIVERSITY AI ACADEMY (2022)

- Completed certification for apprenticeship as a Data Scientist
- Completed project examining effect of political affiliation of states on academic achievement level results – collect and preprocess data, engineer features, apply appropriate ML algorithms, visualize results (<https://github.com/npollard/ai-academy>)
- Python, Pandas, Scikit-learn, Matplotlib

VOLKSWAGEN'S ELECTRONICS RESEARCH LAB (2014 – 2016)

Worked as a front-end developer on a variety of rapid-prototyping projects. Developed POC's for web portals, IoT device integrations, Android apps, voice recognition, etc.

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>)
- Cloud-based Android application to aid first responders (firefighters, police, EMTs) during emergencies
- iOS app for salespeople of Yaskawa America (North America's largest motor manufacturer)

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

Eagle Scout (Boy Scouts of America)