

# Barry McAndrews

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Accomplished, creative and dependable software engineer with a passion for clean code, innovation, and the cloud, looking to further his experience in software development.

## Skills

**Languages** TypeScript, Scala, Python 3, JavaScript, Java, Bash, SCSS, C, C++, Objective-C, Swift, Dart, SQL

**Tools** IntelliJ IDEA, Eclipse, Xcode, Node.js, Maven, Gradle, Git, Express.js, Angular, Vue.js, Spring Boot, Babel, Webpack, Hadoop, Docker, Kubernetes, Spark, AWS CLI

**AWS Services** S3, EC2, EMR, SNS, IAM, Lambda, DynamoDB, Service Catalog, CloudFormation, ECS

**Management** Atlassian Suite (Jira, Bitbucket, Confluence, etc.), Axosoft, GitHub Projects, Asana

**OS** Windows, Linux (Debian, Red Hat, OpenWrt), Unix (macOS)

## Experience

### Software Developer

July 2019 – Present

The Vanguard Group, Inc. | Malvern, PA

- Modernized Vanguard's web services by creating microservices to replace existing mainframe applications
- Provided business insight by building large-scale data processing applications with Apache Spark
- Developed Angular web app to replace portion of Vanguard's website
- Reduced development work by identifying and adopting new cloud services
- Designed and implemented new cloud architecture via CloudFormation infrastructure as code (IaC)

### Software Development Intern

June 2017 – August 2017

ARRIS | Horsham, PA

- Planned and implemented REST API using Spring Boot that replaced current customer support system
- Designed Vue.js frontend for managing ARRIS devices that consumes the mentioned REST API
- Overhauled existing reporting site to display relevant information from a PostgreSQL database
- Created software update script that was deployed to all customer servers

### Lead Mobile Developer

June 2016 – January 2017

Musical Minds LLC | Newtown, PA

- Led development team and planned agile sprints for Musical Mind's iOS app
- Architected Objective-C data structures to effectively interact with Spotify, Deezer and Apple Music APIs
- Ensured code quality by engaging in peer reviews before finalizing code
- Wrote RESTful API routes per best practices for communication with the Python Flask backend
- Designed detailed mock-ups of the iOS app in Photoshop for the development and marketing teams

### Developer Intern

September 2014 – September 2015

Tonic Design Co. | Philadelphia, PA

- Tested and recorded bugs in Android apps for the quality assurance team
- Prepared and delivered a presentation about the benefits of peer programming
- Participated in agile sprint planning meetings with the Android development team
- Completed programming and styling tickets in the Android product backlog

## Education

**Bachelor of Science in Computer Engineering** • Graduated May 2019

University of Pittsburgh | Swanson School of Engineering | Pittsburgh, PA

**AWS Certified Solutions Architect — Associate** • Certified July 2020