

# 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** C, C++, Java, Python (3.7), JavaScript (ECMAScript 2017), Scala, Objective-C, Swift, TypeScript, Dart, Bash, SQL

**Tools** IntelliJ IDEA (Android Studio), Eclipse, Xcode, JUnit, Maven, Gradle, Git, Node.js, Flask, Spring Boot, Webpack, Hadoop, Docker, Kubernetes, Spark, AWS CLI

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

**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

- Converted portions of monolithic software application into new microservices
- Added new features to large-scale data processing application written in Scala using Spark
- Developed Angular web app to replace portion of Vanguard's website
- Identified and adopted new AWS services for use at Vanguard
- 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
- Reviewed and refactored code submitted by the development team before merging it
- Wrote RESTful API routes per best practices for communication with the Python Flask backend
- Designed and produced 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

University of Pittsburgh | Swanson School of Engineering

Major: Computer Engineering • Graduated: May 2019