

Derek F. DiLeo

Software Engineer

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PROJECTS

[Youth Homelessness Project](#): 2022 - Full Stack Java Spring Boot MVC web application which uses survey questions to determine the specific needs of the respondent and returns appropriate information for them. Survey data is sanitized for anonymity and collected to provide the city of Orlando key information about where certain resources are needed.

[Request Live Music](#): 2021 - Full Stack multi-platform mobile/web application written in Dart using the Flutter framework which allows users to find nearby (via location services) entertainers (DJs, bands, etc.) and make contact- and interruption- free song requests. Entertainers then receive native device notifications via Google Cloud messenger service and can view them in their request dashboard within the app (iOS, Android, Web).

SKILLS

Modern Android Development, Jetpack Compose, Kotlin, Dagger Hilt DI, C++, JNI, AWS, Agile TDD w. Java Enterprise/J2EE + JUnit5, Spring Boot REST MVC with Thymeleaf, Maven, Postman REST testing, jQuery, JavaFX, Multi-Platform App Dev w. Dart & Flutter, DevOps, CI/CD Pipelines, Jenkins, Docker, Microservices, Hibernate ORM, JPA/JPQL, MySQL, SQL Server, PostgreSQL, Git VCS, Apache Tomcat, JavaScript, Node.js, React18, Bootstrap5, CSS3, HTML5, XML, Jira, Confluence, Teams, Office, MATLAB, GNU Octave, NI Multisim, PSpice, and Arduino

EDUCATION

B.A.S. Computer Engineering & Software Development **01 / 2021 – 08 / 2022**

A.S. Audio Engineering, A.S. Sound Production **01 / 2015 – 12 / 2020**

Valencia College – Orlando, FL

- 3.92 GPA & Numerous Academic Scholarships
- National Society of Collegiate Scholars (NSCS) Member

EMPLOYMENT

Tomahawk (acquired by AeroVironment 10/2023) **08 / 2022 – Present**

Software Engineer (Apps)

Tech Stack: Kotlin / Java, Jetpack Compose, Dagger Hilt DI, C++, JNI, JUnit

Role: Design, implement, and document UI features for our flagship software product, Kinesis. Introduced our team to Modern Android Development using Dagger Hilt DI, Jetpack Compose, and MVVM architecture. Created applications for drones integrated through our SDK to simplify the pairing process and persist ground radio settings across restarts for a streamlined user experience. Worked with firmware team during development of hardware-centric application for program of record. Developed and deployed customer portal web app for hardware registration, software license management, RMA + Bug reporting and tracking and integrated with Jira API for automatic ticket creation / assignment, and software distribution (React, AWS Gov Cloud, SoftwareKey).

City of Orlando - Youth Homelessness Project **04 / 2022 – 08 / 2022**

Team Lead + Full Stack Developer

Tech Stack: Java, Spring Boot MVC, Spring Security, JPA/Hibernate, Thymeleaf, MySQL, Amazon RDS, GitHub, Slack

Role: Gather requirements from city officials and relay to team. Created a UML diagram of project entities for relational database and implement using Spring Data JPA, Lombok and Hibernate ORM. Created REST endpoints using MVC design pattern with a Java back end and a front end which uses Thymeleaf templates, jQuery, DataTables and Bootstrap 4.

Rx Delivered Now **03 / 2022 – 08 / 2022**

Quality Assurance Manager

Tech Stack: Flutter / Dart, Google Firebase, Google Analytics, Jira, Confluence

Role: Work closely with our CEO, development team, and product developers to ensure a consistent, quality user experience on our mobile and web platforms. Spearheaded an initiative to increase agility by implementing Google Tag Manager for site analytics collection, remarketing, and conversion tracking. Routinely tested mobile and web apps and relayed identified issues to our development team with actionable resolutions via Jira.

Valencia College – School of Arts & Ent., Orlando, FL

09 / 2015 – 08 / 2021

Network Admin + Helpdesk

Tech Stack: Apple Remote Desktop, VirtualBox, Docker, Dante Domain Manager, Apple Automator, various DAWs & plugins

Role: Managed a team of lab assistants in on-campus recording studios. Performed day-to-day administration and maintenance on mission-critical systems including Mac/PC/Linux, Cisco PoE Switches, professional audio and IHSE KVM hardware and software. Assembled the largest educational RedNet network in North America by incorporating proprietary software to create and manage virtual audio subnet environments with a Linux VM and a Dockerized NTP server. Authored documentation for system configuration and troubleshooting to increase help desk knowledge base.