

Andrew Dillon

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SKILLS

Leadership, Teamwork,
Communication, Teaching,
Mentoring, Learning, Listening,
Writing, Agile, DevOps

TECHNOLOGIES

React, React Native, Node.js,
Spring Boot, TypeScript,
JavaScript, Java, Kotlin, Go,
Python, Jupyter, Docker, AWS,
Kubernetes, OpenShift

EDUCATION

**University of Missouri - Saint
Louis**, St. Louis, MO

2016 - 2020

Master of Computer Science

PERSONAL PROJECTS

pdf-lib - Widely used library for
manipulating PDF documents in
any JavaScript environment.
2500 GitHub stars and 100,000
weekly NPM downloads.

jsv9000.app - Interactive web
app that visualizes and explains
JavaScript's Event Loop. Used
by instructors and coding
schools to help developers learn
how async JavaScript works.

chip - CLI tool that speeds up
development by simplifying
management of microservices
and infrastructure in local
environments. Actively used by
multiple teams at UniGroup.

WORK EXPERIENCE

UniGroup, St. Louis — *Senior Software Engineer*

NOVEMBER 2019 - PRESENT

- Tech lead and full stack software engineer using primarily React, Spring Boot, and PostgreSQL in an agile environment.
- Led a development team creating a system to automate and streamline the scheduling of events with customers by connecting to our agent's calendars, thereby reducing wait time from 2+ days to <12 hours for 100,000+ customers annually leading to increased revenue.
- Led a team that developed a new billing system for our vanline's leads and updated the distribution algorithm for assigning leads to our agents, increasing business for 500+ agents in our network and adding over \$3,000,000 to our company's revenue.
- Designed and built a system for our network's agents to configure geographic service areas with a subsystem for lead distribution that improved CX for thousands of customers and eliminated over \$2,000,000 in annual expenses by increasing the efficiency and effectiveness of our network.
- Formed and managed a cross-team group of frontend engineers and UI designers that built a library of reusable React components that improved the stability of our applications and increased the velocity of over 70% of our development teams by reducing waste and allowing code reuse.

UniGroup, St. Louis — *Software Engineer*

MARCH 2018 - NOVEMBER 2019

- Full stack software engineer using primarily React, React Native, Spring Boot, RabbitMQ, and PostgreSQL in an agile environment.
- Designed and built a web app and backend system to pilot a new customer experience and pricing model. We completed this project in a mere 8 weeks. Several features of this pilot program were made permanent and have increased our customer conversion rate, translating to over \$500,000 of additional revenue.
- Designed and built an iOS & Android mobile app and backend systems that improved the speed & efficiency of 1000+ packers and allowed them to perform electronic inventories in low-connectivity areas, freeing up \$750,000 that was previously spent on an error-prone 3rd party app.
- Independently developed a system to produce business metrics and statistics for our electronic inventory app that gave our team vital information about our app's effectiveness and problem areas, allowing us to proactively identify and address production issues.

Maryville Technologies, St. Louis — *Software Engineering Intern*

DECEMBER 2016 - MARCH 2018

- Full stack software engineer using primarily React Native, Spring Boot, Golang, and PostgreSQL in an agile environment.
- Designed and built an iOS & Android mobile app and backend systems to allow 2500+ van operators to track and service loads, even in low-connectivity areas, forming a key piece of infrastructure for \$100,000,000+ of business.