

Austin, TX
(210) 872-1462
tjcarlson25@gmail.com

Tyler Carlson

Software Engineer

tylerjcarlson.com
linkedin.com/in/tcarlson25
github.com/tcarlson25

EMPLOYMENT

IBM

Software Engineer

Austin, Texas

February 2019 – Present

- Produced a microservice based SSO boarding application, with support for protocols including OAuth2.0, OIDC, and SAML
- Reduced deployment time through the creation of pipelines within Jenkins, allowing for continuous deployment from codebases in GitHub
- Enhanced scalability of microservices through docker containerized applications in kubernetes
- Leveraged knowledge of IDEs, postman, browser development tools, and full stack development to debug/test applications
- Utilized Spring Framework in Java to build REST APIs and other necessary microservices
- Constructed authentication components and maven plugins for backend services to speed up development time

Software Developer Intern/ Co-op

June 2017 – January 2019

- Implemented a REST using Spring framework for IBM's SSO boarding application
- Created slack bot to simplify and organize daily standups in the Agile environment
- Developed portal to display user information for all interns throughout the company using Node.js for server-side rendering
- Leveraged knowledge of Java, Git, slack webhooks, HTML, CSS and JavaScript

Computer Science and Engineering Dept. of A&M

Peer Teacher

College Station, Texas

January 2017 – May 2017

- Helped students to understand the material taught in computer science classes and labs that I had excelled in previously
- Guided students to practice computational thinking and improve their programming skills

EDUCATION

Texas A&M University - Dwight Look College of Engineering

Bachelor of Science in Computer Engineering

Minor in Mathematics and Cybersecurity

College Station, Texas

December 2018

- **GPA:** 3.91/4.0
- **Awards:** Dean's Honor Roll, Summa Cum Laude
- **Relevant Coursework:** Programming Languages, Software Engineering, Data Structures & Algorithms, Computer Architecture & Design, Cryptography, Network Security, Information Storage and Retrieval

PROJECTS

Social Media Unifier

February 2018 – May 2018

- Developed SaaS Application with Ruby on Rails that allows most social media platforms to be integrated into a single place
- Presented bi-weekly reports to the client after each iteration on the current status of the project
- Designed architecture and layout of relational database on Amazon Web Services

Personal Website (*tylerjcarlson.com* – additional projects)

June 2017

- Produced a web application using HTML, CSS, and JavaScript and deployed using Firebase

Participant of Diversity Accessibility Hackathon

February 2017

- Developed a navigational android app for the visually impaired that uses a new physical framework for textural and audio cues. Awarded best interdisciplinary project

Aggie Challenge Research - AquaHaptic

January 2017 – May 2017

- Created a navigational tool that analyzes the swimming style of users by utilizing machine learning
- Gathered data and extracted independent features in order to correctly classify the user's swim stroke

SKILLS

Languages: Java, JavaScript, SQL, Python, HTML, CSS, C++, Swift

Frameworks/Systems: Kubernetes, OpenShift, Docker, Jenkins, Networking/SSL, GitHub, Spring Boot, Spring Cloud, Node.js, React, iOS/Android Development, Maven, SSO Protocols, OAuth, OIDC, SAML, Mongo, DB2

Engineering: SRE, CI/CD, Object Oriented Design, Agile, Software Testing/Debugging, Documentation, Problem Solving