

Travis Kern

Software Engineer | Leader | Innovator

<https://tkern.net>

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EXPERIENCE

Saucon Technologies — Full-Stack Developer

2012 - PRESENT

Design and implement products for customers that are directly responsible for managing their fleets and daily operations. Work with project managers and utilize best programming practices to write software that is performant, flexible, and ultimately satisfies all business requirements. Adaptable to unexpected and frequent changes to specifications.

Provide mentorship for new hires, interview potential candidates, and provide guidance to others for software design and code organization. Overall a big team player.

- Developed the company's vehicle scheduling system. This system enables customers to manage stops, plan routes, dispatch vehicles, and improve operational efficiency. Integrated with Google Maps to provide customers with intuitive interfaces for building geo fences, constructing route paths, and monitoring real-time vehicle locations in relation to the scheduling system.
- Develop modules within the company web portal. Created numerous administrative applications, including user and client management screens, as well as web-based reports to provide data to customers. Also integrated d3.js with the portal's framework in order to build interactive charts for customers.
- Work on back-end processes that manage customer data. Frequently write jobs to automate repetitive tasks.
- Provide technical and conceptual guidance for system infrastructure and database performance.
- Developed a real-time engine dashboard that rendered a bus dashboard in the web portal and was streamed live engine data, such as speed, rpm, odometer and battery status, over WebSocket.
- Develop, support and enhance a number of iOS apps. These apps interface with the company's vehicle scheduling and forecasting systems to provide bus riders with real-time arrival and departure information, as well as customer-defined alerts that are delivered through push notifications.

Languages

Java, SQL, Python, JavaScript, Swift, HTML, XML, JSON, CSS, JSX, Bash, Objective-C

Frameworks

Spring, GWT, SmartGWT, d3.js, psycopg2, Node.js, Express.js, jQuery, React, Google Maps, Freemarker, Backbone, Bootstrap, iText, SmartXLS, JUnit

Tools

Maven, Git, PostgreSQL, Eclipse, IntelliJ, Jenkins, Salt, Make, Gulp, NPM, VIM, SQLite, Tomcat, Nginx, XCode, Virt-Manager

OS

Linux, MacOS, Windows

Education

Misericordia University

B.A. Computer Science
Summa Cum Laude

2008 - 2012