JOEL (J.T.) JAMES

Software Engineer

Highly motivated senior software engineer with 7+ years of experience solving complex technical challenges.

WORK EXPERIENCE

SYNTECH SYSTEMS

Embedded Software Engineer | January 2017 - Current

Working as an engineer on a myriad of technical challenges ranging from cutting edge payment processing to rewriting legacy IoT applications

- Architecting and implementing an internal only payment gateway for processing credit card transactions from our edge devices to various payment partners, following PCI and EMV specifications
- Participating in code reviews and assisting developers in solving technical challenges across the stack
- Leading training sessions on new technologies
- Participating in Agile/Scrum ceremonies (standup, retrospectics, sprint planning, etc)
- Architected and performed our transition from AngularJS to Angular 8 in order to improve application performance, modernize our technical stack, and refresh the application framework to be more maintable
- Designed an internal Angular library for abstracting advanced form creation out of HTML and into Typescript allowing our team to more quickly develop and create forms in a type-safe environment
- Co-lead a rewrite of a 20+ year old piece of software responsible for managing edge devices utilizing radio communications in order to improve maintability and allow additional developers to participate in development efforts
- Authored many testing tools, mostly written in python. Examples include simulating vehicle behavior, simulating credit card transactions, etc
- Worked alongside Testing Architects to stand up an ELK stack for log aggregation and data analytics which is currently being utilized in our testing environment

ATHENAHEALTH

Developer | May 2015 - December 2016

Worked as software developer with a focus on reporting, KPI metric aggregation, and data management

- Worked alongside business partners to facilitate loading and fetching of denormalized client data for analytics purposes
- Utilized Perl and Oracle SQL to consolidate client data in a quickly accessible form
- Utilized AngularJS and Perl to create analytics interface for presenting KPIs to clients in real time
- Created Angular JS frontend components and unit tests to improve modularity and code quality
- Lead Agile Meetings (sprint reviews, retrospectives, sprint planning, daily standups, and backlog grooming)
- Developed internal tools to streamline Agile experience: spring planning documents, backlog management tools, Slack integrations, etc
- Tuned performance of Oracle SQL queries
- Facilitated and assisted with monthly, weekly, and daily release cycles

- Performed QA duties (code-check, smoke tests, unit tests, regression tests)
- Hosted informational sessions on Kibana, Oracle SQL performance best practices, and other job-specific duties

EDUCATION

MERCER UNIVERSITY

Bachelor of Science - Computational Science | August 2011 - May 2015

PROJECTS

MEAL MEMO (2022)

A work-in-progress Typescript/Angular/Node/Express application intended to allow for easy recipe storage, recipe search, and meal planning.

FANTASY FOOTBALL CHALLENGES (2021)

A Typescript/Angular application that allows for importing data from an ESPN Fantasy Football league. The data is then anaylzed and the winner of the selected challenge is decided.

GOLF LIKE THE PROS: THE SWEET SPOTS AND PITFALLS AT TPC SAWGRASS (2015)

Under the supervision of Dr. Allen Lynch, from Mercer University, I worked alongside a classmate to create a web application which displayed the most and least efficient positions on the course at TPC Sawgress. We utilized a historical data set of every shot ever taken on the PGA Tour since the 1980s.

VISUALIZING ARRAYS IN ECLIPSE (2013)

Worked alongside a professor from the Vienna University of Technology to create a plugin for the Eclipse IDE to allow for easy visualization and inspection of Arrays and other collection types. This project was performed as part of the Google Summer of Code Program in 2013. I was one of 143 students in the United States selected for this program.

2020 NFL INJURIES (2020)

October 2020

A short 'blog' post investigating the rate of injuries in the NFL during the 2020 season

CONTACT INFORMATION

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