

JOSHUA PALAMUTTAM

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SUMMARY

A highly-motivated computer professional, who graduated with a Computer Science degree from Rose-Hulman Institute of Technology '19, with the enthusiasm to accept new challenges. The software engineering positions I have been in have given me hands-on work experience working on application design, development, and quality assurance using agile practices, and writing clean code.

EDUCATION

Rose-Hulman Institute of Technology
Bachelor of Science in Computer Science

2015 - 2019

EXPERIENCE

Kaiser Permanente Genetics

February 2020 - Present

Junior Dot Net Analyst, San Jose, CA

- Main purpose was to do research and development for different applications used by the Genetics Department
- Responsibilities for this job include gathering requirements along with developing and supporting applications
- Made applications with the Kaiser tech stack of primarily .Net Core MVC applications, with a SQL Database
- Occasionally made Batch Files, or Excel VBA scripts to aid Lab Technicians in their duties

DMI

May 2019 - February 2020

Software Engineer, Indianapolis, IN

- Helped create a POC for Kar Global to optimize lot operations at a car auction site, using Angular, Node.js, AWS serverless, SQL (2 months)
- Helped build a physics engine called ISCAAN for Allison Transmission to simulate a transmission (7 months)
- The majority of Allison Transmission's proprietary math was done using C++, which was then passed to a Angular, .Net Core, SQL stack, using Entity Framework Core
- Because of ISCAAN's large nature, the project was designed to use a hexagonal software architecture
- Built Microsoft Teams Chat bot for DMI, using LUIS an Azure Cognitive Service (NLP) with a .Net Core back end (1 month)
- All projects used Azure Devops to adhere to SAFe agile practices, such as CI/CD, unit and integration testing

PROJECTS

Compile.io (Angular, Spring Boot, MongoDB, Docker)

2018-2019

- My Senior Project, tasked to build a scalable website that automatically grades student submitted code
- Code was submitted through the Angular front-end, taken to our Java Spring backend, processed in a docker container, and stored in MongoDB.
- Gathered requirements from professors, and wrote documentation that can be viewed in my github
- Followed Agile methodologies, with CI/CD, 2 week sprints, feature branching strategy, and unit testing

Stock Market Analysis through Twitter (Python)

Spring 2019

- The purpose of this project was to figure out how a companys twitter handle and companys CEO twitter handle affected the companys stock
- Performed Latent Semantic Analysis on tweets for those twitter handles
- Pre-processed data by removing stop words, duplicate tweets, and special characters
- Used cross-validation, and Naive Bayes to predict the Stock Market
- The stock data was recieved through quandl, and the tweets were recieved through tweepy

Full stack website, College Cookbook (Javascript, Firebase, MongoDB)

Fall 2017

- The website can be found at this link: <https://college-cookbook-jkl.firebaseio.com/login.html> or github
- Developed and Integrated a MongoDB database for the back end and deployed front end through Firebase
- Features: posting to twitter, emailing recipes, inputting recipes into the database, and secure login

SKILLS

Programming Languages

JavaScript, Typescript, C#, Java, SQL, HTML, CSS, Python

Frameworks

Angular, Node.js, Spring, .Net Core, Entity Framework Core

Tools

AWS, Azure Devops, Docker, Git, Visual Studio, Visual Studio Code

Certifications

AWS Cloud Practitioner, SAFe 4.6