

SaiCharan Reddy, Pannala

✉ sa041328@ucf.edu ☎ 3213005577 in saicharan0312 🌐 saicharan0312 📧 saicharan0312

🔗 <https://saicharanpannala.netlify.app/>

EDUCATION

Masters in Computer Science

01/2022 – 12/2023 | Orlando, USA

University of Central Florida

Computer Science, GPA: 3.96

Coursework: **Data Structures and Algorithms, Design of Analysis and Algorithms, Computer Architecture, Machine Learning, Advance Artificial Intelligence,**

SKILLS

Programming Languages

C, C++, C#, Java, Python, JavaScript, TypeScript

Databases

SQL/MySQL, Oracle, MySQL, MongoDB

Framework & Libraries

Framework & Libraries : ReactJS, Vue.js, React Redux, Thunks, ASP.NET, MVC, Spring Boot, JPA, Spring WS, Angular, Node.js, JQuery, Express, Apache Tomcat.

Tools & Operating Systems

Jenkins, TFS/DevOps, VScode, Eclipse, GitHub, Bitbucket, Unix/Linux, Windows

PROFESSIONAL EXPERIENCE

Phenom People

Product Development Engineer I

09/2020 – 12/2021 | Hyderabad, India

PROJECT 1

- Designed, developed and modified rich UI of 12+ custom components utilizing **React JS, VueJS, HTML/SCSS , React Redux, React Thunks.**
- Developed and maintained **30+ REST APIs** writing documentation using **openAPI** specification and **Postman** app to verify while developing.
- Used **10+ node package** manager for backend development such as **Express, mongoose, mongo.js, body-parser, bcrypt.js and validation.**
- Analyzed project flow, data usage, and work processes, **examine 100% of problem** areas and fixed bugs.
- Executed & **written 200+ unit tests**, using **test Driven Deployments (TDD)** to ensure 100% of code with **SDLC** was without bugs.
- Planned, tracked and managed deliverables on 50+ short-term long-term sprints and deployments.
- Suggested **5+ improvements to product design**, functionally and **optimize code by 10%** as informed by client's request.
- Development of company's internal CI system, providing a **comprehensive API for CI/CD.**

PROJECT 2

- Worked on **Angular 7** framework where I have built 20+ Components, Services, custom pipes, **RxJs** to implement **Asynchronous and Synchronous data flow.**
- Worked on an application which support Careers page for team to handle customer requests and services which help in creating necessary **filters** on career platform for clients.
- Familiar with **ORM languages** like **Hibernate, JPA.** Implemented **Dao layers** with **SpringBoot, Hibernate** Framework to query data from a **database.** Closely worked on **Collection framework, Lambdas, Java Streams.**
- Actively participated in regular client meetings to get the business requirements and queries relating to possibilities of building the application, also part of regular deployments, **unit testing** and retro meetings. Stack used in building the application are **Java, Spring Boot, Rest Api's, Gradle, Angular to handle front-end components.**
- Familiar with complete **SDLC modals** and worked on projects following **Waterfall and Agile Models.**
- Have a good Understanding of **Cloud services like AWS, GCP.**

Opentext

02/2020 – 08/2020 | Hyderabad, India

Product Engineering Intern

- Built responsive **10+ web pages and components** for company internal purpose using **HTML5, JavaScript, ReactJS, Vue.js and SCSS** compiled using **yarn build** tools.
- Worked in **agile environment** with weekly stand-ups, kept track of user stories/bugs in **GitHub** projects information. This process allowed to production to increase by **10% speed** and **code reduces by 15%.**
- written unit tests in **Jest** for React components. This made production of **100% bug free.**
- Worked on **MVC (Model View Controller)** design patterns on the applications.

ACADEMIC & PERSONAL PROJECTS

Post the places you visit (full Stack web application) ☑

- Developed a web application where a person post the places he/she visited. I have used **React JS** for front end, **Mongo DB** for backend developemet, **Express JS** as middel ware and **Node JS.**
- Created Authentication with **bcryptJS** when Hashning the password. To Upload images, images are not stored in DataBase but on server and address is stored in DB via **Multer.**
- To check if the authenticate user is posting any image or editing is checked by **jsonwebtoken**

Cache memory design (C++) and Branch Predictor Simulator design

- Implemented **L1,L2 Cache**. SPEC 2000 benchmarks were used under the observation of **Write Back, Write Allocate (WBWA) policy**. **LRU, Pseudo LRU, Optimal policy** were used. Analysis as performance parameters like varying cache Size, Associativity and Block size were analyzed. Constructed a Branch predictor simulator and used it to design branch predictors well suited to the SPECint95 Benchmarks. **Smith N-Bit, Bimodal, G-share, Hybrid** branch predictors were designed and analysis of parameters like miss predictions, miss rate

Web application for social responsibility

- Framework used are **django, sqlite, django channels** to introduce chat system in app, It is web based application which is intended for all corporates and individuals to collaborate for a social issue.

Drowsiness detection using facial feature eye

- It is a machine learning program which is used for long journey drivers that helps to detect to not to fall asleep. Dependencies used are **TensorFlow, openCV, Dlib, Imutils, Keras**

CERTIFICATES

AZ-900 - Microsoft Azure Fundamental

NPTEL Certification in DBMS