SaiCharan Reddy, Pannala

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EDUCATION

Masters in Computer Science, *University of Central Florida*   01/2022 – 08/2023 │ Orlando, USA
Computer Science, GPA: 3.96
Coursework: **Data Structures and Algorithms, Design of Analysis and Algorithms**, **Computer Architecture**, **Machine Learning**, **Advance Artificial Intelligence**,

Bachelors in Information Technology, *Vasavi College of Engineering*   08/2016 – 08/2020 │ Hyderabad, India
Information Technology, GPA: 7.99
Course Work **: C, C++, C#, Java, Web Application development, JavaScript, Python, RDBMS, MySQL, Design of Analysis and Algorithms, Machine Learning, Advance Computer Design and Architecture, Unix/Linux.**

SKILLS

C, C++, Java, Python, C#, JavaScript, TypeScript, React JS, PHP, Redux Thunks, Angular, HTML6, CSS3, SCSS, Bootstrap, React JS, Vue.Js, Spring Boot, Node.js, JQuery, Express, Apache Tomcat, SQL/MySQL, Oracle, MongoDB, Jenkins, VScode, Eclipse, GitHub, Bitbucket, Unix/Linux, Windows

PROFESSIONAL EXPERIENCE

University of Central Florida, *Graduate Teaching Assistant*   02/2022 – 06/2023 │ Orlando, USA
- My primary tasks would be to assist students in their lab sessions & Grade their assignments.

Phenom People, *Product Development Engineer I*   09/2020 – 12/2021 │ Hyderabad, India
- Designed, developed and modified rich UI of 12+ custom components utilizing **React JS, 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, brcypt.js** and **validation**.
- Analyzed project flow, data usage, and work processes, examine 100% of **problem areas** and **fixed bugs**.
- Executed & written 200+ unit tests, 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**.

Opentext, *Product Engineering Intern*   02/2020 – 08/2020 │ Hyderabad, India
- 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**.

ACADEMIC PROJECTS

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 banckend developemet, **Express JS** as middel ware and **Node JS.**
- Created Authentication with **bcryptJS** when Hashning the password. To Uplaod 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 Brach 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 colloborate 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 **openCV**, **Dlib**, **Imutils**

CERTIFICATES

AZ-900 - Microsoft Azure Fundamental, NPTEL Certification in DBMS