

Sai Charan Pannala

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EDUCATION

University of Central Florida Masters in Computer Science

01-2022 – 12-2023 | Orlando, USA

Computer Science, GPA: 3.98

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

PROFESSIONAL EXPERIENCE

Software Engineer Phenom

09-2020 – 12-2021 | Hyderabad, IN

- Implemented responsive **ReactJs** components, managing state and data handing using **Redux & local/session storage** for a web application, reduce loading time by 30%.
- Extensive hands-on experience in **Spring Boot** and a wide range of **Java frameworks** and **libraries**, coupled with a proven track record in **Cloud API** development.
- Achieved API Services in **NodeJs, ExpressJs** using **GraphQL** to store and fetch data from **MongoDB**
- Proficient in full-stack development, with a strong background in **JSP** for **server-side rendering**. NodeJs for server-side **JavaScript** applications, contributing to comprehensive end-to-end web development.
- Customized, built, and integrated and then the application was containerized using **Docker** for simpler deployment in a vast **micro-service architecture**.
- Possess a profound understanding of microservices architecture and API design principles. Proficient in utilizing **JUnit** for comprehensive testing with **CI/CD pipeline**, ensuring the robustness and reliability of software components.

Software Engineering Intern Opentext

01-2019 – 08-2020 | Hyderabad, India

- Collaborated with a **cross-functional** engineering team to **design, develop, review, and test** cutting-edge functionality, fostering a hands-on approach to problem-solving and innovation.
- Key player in developing **real-time distributed software** to optimize inventory and order fulfillment, **boosting customer satisfaction** and **operational efficiency**.
- Spearheaded the evolution of the existing software architecture towards **microservices**, leveraging technologies such as **.NET Core, Kubernetes, RabbitMQ** to optimize scalability and maintainability.
- Actively contributed to the development of high-quality software solutions, utilizing a diverse technology stack including **C#, SQL, Angular ASP.NET, and Docker**, ensuring robust and versatile applications.

SKILLS

Programming Languages

JavaScript, Java, Python, C/C++, C#, HTML5/CSS

Databases

SQL/MySQL, Oracle, MySQL, MongoDB

Frameworks

ReactJs, Redux, SpringBoot, Unit Testing (Jest, Enzyme), NodeJs, ExpressJs, .NET Framework, ASP .NET

Developer Tools

Git, Jenkins, Ansible, Puppet, Docker, Kubernetes, Tableau, ELK, Grafana

ACADEMIC & PERSONAL PROJECTS

Places Visiting (MERN)

React, Express, Node, MongoDB, GitHub

- Programmed server-side logic of a blogger portal using **Express Js**, operating in a **Agile workflow** with a 1 team members
- Implemented OAuth to get users data from **Backend** using **bcryptjs, jsonwebtoken**
- Introduced **React-based UI development** to 4 new front-end developers, learned paradigms for API integration from **Express server**, and worked bi-weekly as a sprint by think up with new ideas
- Images that are posted were stored in Local and address is stockpiled in **MongoDB** with **MulterJs** under fixed user

Laundry app

React-native, Redux, Google FireBase, GitHub

- A full stack development **Android app** that used for customers to book their laundry time in prior
- developed rich user interface using **react-native** as front-end and stored booking details and user info into **fire base** works on 2 Collections
- management of state across the app is maintained by **redux**

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

CERTIFICATES

AWS Solutions Architect

