

Prashanth Nalla

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Education

University at Buffalo

MASTER OF SCIENCE IN COMPUTER AND INFORMATION SCIENCE

- Graduate Teaching Assistant for CSE 4/521 Operating Systems
- CGPA: 3.75/4.0

Courses: Operating Systems, Introduction to Machine Learning, Algorithms and Analysis, Data Intensive Computing, Data Models and Query Languages, Computer Architecture, Green Computing and Sustainability.

Buffalo, New York, USA

Aug 2022 - July 2023 (Expected)

Jan 2023 - present

B V Raju Institute of Technology

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE

- CGPA: 9.46/10.0

Courses: Compiler Design, Software Engineering, Computer Networks, Networking Programming, Digital Logic and Computer Organization, Information Security, Ethical Hacking, Internet of Things, Cloud Service and Virtualization, Assistive Technologies.

Narsapur, Medak, India

Aug. 2015 - May 2019

Technical Proficiencies

Programming Languages Python, Java, JavaScript, C++, C, HTML, CSS, PHP

Database MySQL, PostgreSQL, NoSQL, MongoDB, SQLite

Frameworks/Tools/Cloud Node.js, Spring, Hibernate, Django, Flask, React.js, AngularJS, Vue.js, Mocha, JUnit, AWS

Experience

Hans Matrimony

FULL STACK DEVELOPER

New Delhi, India

June 2019 - Feb 2022

- Developed and maintained EazyBe.com websites using React, Redux, JavaScript, Java, Spring, Hibernate, HTML5, CSS3, MySQL.
- Integrated multiple third-party APIs such as stripe payment gateway and social media platforms into EazyBe.com's backend systems using Java-based SDKs and APIs.
- Integrated Customer Relationship Management (CRM) with web-based WhatsApp extension on EazyBe.com.
- Built a comprehensive components library with advanced animations resulting in a 25% increase in click-through rates and a 18% increase in overall website engagement.
- Implemented client-side data caching using React Context and Redux Persist, resulting in a 40% reduction in API calls and improved website performance.
- Designed and implemented a microservices architecture using Spring Boot, Docker, and Kubernetes to improve application scalability, performance, and availability.
- Deployed React and Java backend on AWS using Elastic Beanstalk and EC2 for web deployment and infrastructure management.
- Utilized Amazon S3 for storing static assets and Amazon RDS for managing databases while ensuring security through AWS IAM for access management and SSL certificates for encryption.

Persistent Systems

APPRENTICE

Pune, India

June 2018 - October 2018

- Collaborated closely with a team of developers to design and implement the drone's control system and visual interface, utilizing various sensors and APIs for reliable and accurate operation.
- Enabled drone to navigate a predetermined path and avoid obstacles using CrazyFlie 2.0 platform and additional sensors.
- Contributed to a live drone project that demonstrated autonomous piloting capabilities for indoor and outdoor environments, leveraging Python and the A* algorithm for optimal pathfinding.
- Employed strong problem-solving and analytical skills to optimize the drone's performance, achieving a 15% efficiency improvement and enhancing the user experience.

Academic Projects

Pintos → Contributed to the development of various operating system features, including threads, user programs, virtual memory, and file systems. Utilized programming languages and tools: C, GDB, and QEMU. Gained valuable experience in OS development, collaboration, and project management. Conducted extensive testing and debugging to ensure stability.

Onedatashare.org → Contributed to OneDataShare.org, an open-source data transfer software, which enables users to transfer data across different storage systems and computing platforms. Proficient in working with various data transfer protocols and optimizing transfer speed using accelerators. Designed a user-friendly web-based interface for efficient management of data transfer tasks.

ReviewScope → Developed a full-stack web application using ReactJS, Redux, NodeJS, and MongoDB, called ReviewScope, to manage conference roles. Designed and implemented a user-friendly interface for efficient conference management. Conducted testing and debugging to ensure reliable operation and contributed to project documentation for seamless maintenance.