

Praveen Pinjala

My passion for computer science drives me to succeed.

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Education

Rutgers University, New Jersey, USA

MASTER'S IN COMPUTER SCIENCE

GPA - 3.83/4

Jan 2021 - Dec 2022*

Visvesvaraya National Institute of Technology, Nagpur, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

GPA - 7.83/10.0

August 2014 - May 2018

Skills

Languages	Java,, C, C++, Python, SQL, Solidity (for Smart Contracts)
Databases	Oracle SQL, MySQL, Google Firebase Database, InterPlanetary File System (IPFS)
Web Designing	TypeScript, JavaScript, HTML, CSS
Frameworks	Expo, React Native, React, Spring, ROS (Robot Operating System), LaTeX, Truffle Suite
Cloud Services	AWS (EC2, S3, RDS, Elastic Beanstalk, DynamoDB, CloudFront), Pivotal Cloud Foundry
Other	Git, Maven, Android, Junit, Spring (Hibernate, Velocity), OpenShift, JIRA

Experience

Deutsche Bank | Software Engineer (Senior Analyst)

July 2018 - Jan 2021, [Pune, India](#)

- Developed an HR-analytics multi-lingual web application using **ReactJS + Spring boot** for >1M Deutsche Bank employees.
- Implemented an **automated data analytics service tool** that collects data, transforms it to useful knowledge, and a dashboard to download & print reports, and also to trigger **automated Newsletters, E-mail notifications** to users.
- Lead development of **Responsive UI (Mobile, iPad, and Desktop compatibility)**, and with support for **German, UK, US - English**.
- Solely **migrated 10+ HR services** from legacy to newer infrastructure, and provided a single common **dashboard**.
- Implemented a **generic code base layer** for all of the above such that country specific features can be added on top.

Zuti Engineering Solutions | Software Developer Intern

May. 2017 - July. 2017, [Hyderabad, India](#)

- Developed an **Android, JS Web applications** to monitor, and operate a **7-axes robotic arm** for an industrial setting.
- Integrated **ROS framework** with android for **remote real-time visualization, and operation** of the robotic arm through the apps.

Electronics Corporation of India Limited | Intern

May. 2016 - June. 2016, [Hyderabad, India](#)

- Designed a website accommodating e-services for road transport authority using **HTML5, CSS, JavaScript, Java Servlets, JDBC, MySQL**, and obtained a comprehensive practical knowledge of web development.

Projects

Virtual Memory Manager + User Thread Library

- Implemented a virtual memory manager library in C, that uses **8MB main memory** for custom paging mechanism, **anonymized memory + 16MB swap file**, along with **in-memory swapping**, and **4-page replacement algorithms**.
- Implemented a user thread library in C that operates with a **custom scheduler, MLFQ, mutexes**, and also avoids **priority inversion, thread starvation**, and solution for a base case of **deadlock detection and prevention**.

Malware Analysis

- Developed an automated tool that employs various **malware detection techniques in .exe,.pdf files**, detects intent of the malware, and notifies the user. The tool can detect **rootkits, key loggers, and trojans** using **de-obfuscation, and Reverse Engineering methods**.

Cloud Computing Project (AWS & Cloud Foundry)

- Modeled an application in **Java8** automated its lifecycle, deployed it on **Cloud Foundry**, and on amazon's **Elastic Beanstalk**, with a scaled relational database using **Amazon RDS, and DynamoDB**. In addition, implemented time restrictions, IP address restrictions, and user restrictions to access an uploaded video on **CloudFront(CDN)**.

React Native Ethereum DApp

- A distributed minimal Instagram clone **Expo mobile** application written in **React Native & TypeScript**.
- The DApp uses **InterPlanetary File System(IPFS)** for storing images, videos, and interacts with the **Smart Contract** deployed on **Ethereum Blockchain**.
- The main purpose is to learn the concepts of blockchain, code smart contracts in **Solidity + Unit test cases**, and develop a DApp, with IPFS integration, and other tools.

Extra-Curricular

- Participated in Deutsche Bank's sustainability hackathon, and developed an app in 24 hours that estimates CO2 emissions.
- Worked as a part-time student volunteer at Nature Restoration Centre(NRC), a local nonprofit organization in India.