Prasenjeet Paul

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EDUCATION

Master of Science in Computer Science   **Aug 2021 - May 2023**
University of North Carolina at Charlotte, Charlotte, USA.   **GPA 4.0**

Bachelor of Technology in Computer Science & Engineering   **Aug 2014 - Jul 2018**
Vidya Jyothi Institute of Technology, Hyderabad, India.   **GPA 3.7**

WORK EXPERIENCE

Spring Intern – Software Engineering   **Jan 2023 – Present**
Toyota Racing Development, Salisbury, US

- Developing a data analysis platform to process the time series race data of Toyota Racing Development.
- Designed an efficient Mongo database model to store parsed time series data initially of size 4GB per row/race.
- Developing a python library that filters, pre-processes, and parses the data using 20+ user-provided constraints.
- Used WebSocket with Express.js/Node to create a virtual command terminal to execute ad hoc scripts remotely.

Software Engineering Intern   **May 2022 – Aug 2022**
Google, Austin, US

- Designed and implemented the first-generation application to help Google manage their Risk Taxonomy data.
- Designed a database schema to manage multiple risk levels with parent-child hierarchy within the data.
- Developed a scalable full-stack application using Angular-Python technology stack with Google Spanner DB.
- Successfully deployed the application to prod and wrote a script to transfer existing 300+ risk data categories.

Software Engineer   **Jul 2018 – Aug 2021**
EPAM Systems, Hyderabad, India

- Worked as a key Software Engineer and provided expertise in JavaScript, Angular & ReactJS.
- Assisted **Mastercard**(client) team in developing and enhancing their customer-facing Web Applications.
- Worked with leadership teams and designed a dynamic UI architecture to support high scalability and modularity.
- Modularized common UI logic into Angular dependency to improve its reusability among other projects.
- Improved code quality by +40% through code optimizations and by resolving critical security vulnerabilities.
- Worked closely with multiple backend teams (Java) in integrating REST APIs with the Angular based frontend.

SKILLS

- **Languages**: Java, C, C#, Python, JavaScript, TypeScript, HTML, CSS, SCSS, SQL.
- **Frontend:** Angular, React, React Hooks, Redux, RxJS, D3.js, WebSocket, jQuery, Bootstrap, Figma, UX Design.
- **Backend**: Spring Boot, Hibernate, .NET, JSP, Node.js, Express.js, PyMongo.
- **Databases**: MySQL, PostgreSQL, MongoDB, Google Cloud Spanner.
- **Data Analysis**: Tableau, Qlik Sense, Amazon QuickSight.
- **Others:** Google Cloud, AWS, Jenkins, Docker, Android, Git, Jira, VS Code, IntelliJ IDE, Eclipse IDE, MS Office.

PROJECTS

- **Online Command Terminal** (GitHub Link)**:** Developed a Web App that creates a command terminal in the server environment and provides it virtually to all the clients to help run OS commands remotely. (Angular, Express.JS)
- **Student Performance and Academic Pattern Analysis System** (Demo Link)**:** Developed a Web Application that analyses students' academic marks and generates interactive analysis reports using Qlik Sense Tool. Process includes data cleaning, data processing and data analysis. (Material CSS, Java, JSP, MySQL, XAMPP, Qlik Sense)
- **Attendance Calci** (Google Play Store Link)**:** Developed an Android app which automates the student attendance calculation, generates attendance report and notify them about deadlines. (Android, XML, Android Studio)

ACHIEVEMENTS

- Received special appreciation from **Google Director, Paige Shum**, for my internship project's efficiency.
- Selected by **Google** as Facilitator for Applied CS with Android Program, Telangana Region, India, 2017 - 2018.
- Founding Member and Executive Board Member (2016 - 2018) of VJIT Developer Student Society.
- **1st Prize** winner of Android Hackathon conducted in VJIT, topic: Children Safety.
- **2nd Runner Up** in **EPAM India Hackathon** out of 20 teams, topic: Smart Tech in Daily Life.