Pankaj Kumar

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EDUCATION

IIT KHARAGPUR
M.Tech, B.Tech (Hons.)
Dual Degree
Computer Science & Engg
July 2020 | Kharagpur, IN

SKILLS

Languages:
JavaScript (ES6+), TypeScript, HTML, CSS, Java, C, Python
Frameworks/Libraries:
React.js, Angular, Node.js, Express.js, Spring Boot
Databases:
MySQL, MongoDB
Build Tools & Platforms:
Webpack, Vite, Parcel, Bootstrap, TailwindCSS, Jest, Cypress, AWS
Soft Skills:
Team Leadership, Agile

HONORS & AWARDS

KVPY Scholarship: Selected for a prestigious national research fellowship.
MasterCard Sandbox Challenge Winner: Recognized for innovative problem-solving.
MasterCard D&S Hackathon Winner: Developed a data-driven marketing platform.
OI Innovation Award: Received for outstanding technical contributions.

EXTRACURRICULAR

Basketball Championship: Represented the district team and played for school and IIT inter-hall teams.
MC Cares Core Team: Organized initiatives for underprivileged children's education, tree-planting, and blood donation drives.
NSS Community Development: Set up a local library in a village school to support youth education.
Boy Scouts Leadership Training: Completed leadership and camping training with distinction, earning an excellent recommendation.

EXPERIENCE

MASTERCARD · SENIOR SOFTWARE ENGINEER
Mar 2024 - Present | Pune, India

- **Led the development team** to build a comprehensive **metrics dashboard** for OR application using **React** and **Spring Boot**, enabling the business team to achieve **20% YoY growth**. Delivered features like **new feature adoption tracking**, **search optimization**, **group and lead tracking**, and **customer journey visualization**, driving growth and enhancing **customer satisfaction**.
- **Leading the front-end team** for the **Operational Reports application**, with key achievements including features such as **one-click checkout**, **catalog enhancements**, **latency** improvement and ensuring compliance with **WCAG 2.2 standards** to improve the application's **accessibility**.
- **Optimized UI performance** by implementing **Brotli compression**, **lazy loading**, **minification**, **image optimization**, and **caching**, reducing **LCP** from **4.1s** to **0.4s**—a **90.24% improvement**.
- **Developed a chatbot** for OR using **AI-powered large language models** to provide accurate and efficient responses related to OR. The system was built with **Angular**, **Python**, and **Hugging Face** technologies to enhance user interaction and automation.
- **Implemented OTP-based authentication** with **Spring Boot Security** and **JWT tokens**, ensuring robust platform security and seamless user interactions.
- **Organized and led** orientation programs and learning boot-camps for MasterCard interns and **new hires**. Gave sessions and mentored them on front-end technologies such as **React**, **JavaScript**, and related frameworks.
- **Won** the Mastercard Hackathon and **developed** the **Index Hub for Marketing**, a self-service platform that empowers content marketers with data-driven insights to optimize leads and create impactful brand campaigns.

MASTERCARD · SOFTWARE ENGINEER
Aug 2020 - Mar 2024 | Pune, India

- **Engineered** and **launched** a **web-based application** as an essential team member, to improve the **onboarding** of **operational reports**, replacing **manual processes** with **automation**. This tool **streamlined workflows**, cutting **development** and **testing time** by **600+ hours annually**.
- Contributed in delivering high-volume operational reports of up to **10 Million lines** and generating **$450M in revenue** annually.
- Integrated **GraphQL** and **REST APIs** for real-time data retrieval, improving application performance.
- **Contributed to regulatory initiatives** by leading the **PCI DSS Certification** of the application and assisting in the **redesign of its architecture** to comply with Indian regulatory requirements, enhancing security and operational efficiency.

PROJECTS

CODE HELPER
Jun 2024 – July 2024

- Developed **Code Helper**, a **VS Code extension** that helps frontend developers across **MasterCard** seamlessly integrate components from the **MasterCard Connect UI Kit** into their projects improving development speed and efficiency.
- Implemented **IntelliSense auto-complete** and **drag-and-drop functionality** to generate UI component code directly in the editor.
- Built using **TypeScript**, **React.js**, **VS Code API**, and **Webpack** to enhance developer productivity and use of the **MasterCard Connect UI Kit**.