SHREYAM **DUTTAGUPTA**

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Experienced **Full Stack Developer** with a passion for crafting robust, scalable solutions. Proficient in API Development, adept at creating and maintaining highly scalable, available, and critical services. Skilled in developing intuitive UI components and web interfaces that enhance user experience. Experienced in all stages of software development, from brainstorming and architecting to rapid prototyping. Actively seeking a full-stack developer role, **available immediately** and **open to relocation** opportunities to contribute expertise in building innovative and efficient software solutions. Learn more about my skills and qualifications at: https://shreyamdg.github.io

WORK EXPERIENCE

Senior Developer at **SAP Concur**   *Mar 2022 – Present*

- Spearheaded end-to-end development for payment systems, encompassing both frontend and backend solutions. Led frontend development for Payment Admin UI using **React**, **Redux**, and **TypeScript**, resulting in a notable 25% increase in user engagement metrics. Concurrently, engineered optimized payments microservices backend with **Java**, **Spring Boot**, **TypeScript**, and **Nest.js**, achieving a 30% improvement in processing speed and a 20% reduction in errors.
- Implemented **GraphQL** schemas and resolvers to enhance frontend performance and streamline backend processes, resulting in significant time savings and improved user experience.
- Designed and engineered reusable web components for payment interfaces, standardizing React ecosystem and improving development efficiency. Managed **AWS** CI/CD pipelines with **GitHub Actions**, **Kubernetes**, and **Docker**, reducing deployment time by an impressive 40%.
- Implemented PCI-compliant CVV capture process for Payment Selection UI. Maintained code in separate PCI-compliant **VPC** and securely injected it into the application using iframes for enhanced security. Acknowledged in SAP Concur's recent blogpost
- Leveraged testing libraries like **Jest**, **Enzyme**, and React Testing Library (**RTL**) to ensure robust test coverage for frontend applications. Led the initiative of transitioning from Enzyme to RTL for improved testing efficiency. Additionally, employed **JUnit**, **Playwright**, and **Storybook** for comprehensive testing across the stack.
- Utilized **GPT-3.5 Turbo** and function calling in proof of concept, enhancing system accuracy and governance for payment team. Identified conflicting administrative rules, leading to 20% improvement in accuracy.

Solution Specialist at **Deloitte LLP**   *Jan 2019 – Mar 2022*

- Led full-stack development and digital transformation by modernizing large-scale applications, replacing legacy systems with open-source libraries. Created lightweight and responsive applications, significantly enhancing performance and user experience, resulting in a 50% improvement in performance and time per page.
- Developed REST APIs using **Java**, **Spring MVC**, **Hibernate** & crafted custom **Vue.js** components with **Bootstrap Vue** to optimize user engagement metrics, while enhancing application security through both fine-grained & coarse-grained access.
- Streamlined analytical reporting with **SAP Crystal Reports** with **Oracle SQL**, enabling pixel-perfect reporting and seamless integration with web applications for enhanced business intelligence and decision support.
- Led a team of **5** in spearheading the Biometric AI initiative, driving development of proof of concepts and prototypes, while collaborating with leadership and RFP teams to define project requirements, budget, and objectives. Additionally, developed a sentiment analysis tool to enhance accuracy and relevance of RFP Process and client deliveries.

Associate Engineer at **EASi LLC, now Actalent**   *Dec 2017 – Jan 2019*

- Designed and developed efficient algorithms for internal software development tools using agile best practices for engines and transmissions team at Caterpillar in Innovation and Technology Development Division using **Java**, **Python**, **Eclipse Modelling Framework**, **Autosar Builder**.

Software Engineering Analyst at **Accenture**   *Sept 2014 – Jul 2016*

- Application support for banking client using **SAP** Business Warehouse, **BI**, Finance and **HR**. Created and maintained **BW** Process chains and drill through for RCA.

EDUCATION

University of Cincinnati   *Aug 2016 – Dec 2017*
Masters in Computer Engineering

PESIT, Bangalore   *Sept 2010 – Aug 2014*
Bachelors in Computer Engineering

PROJECTS

Ticketmaster - AI Insights: Developed an AI-driven full-stack application leveraging Ticketmaster's API, utilizing JavaScript and Vue.js on the frontend and Python with Jsonformer and dolly-v2-3b model on the backend, to generate personalized event recommendations.

myBookshelf (*shreyamdg.github.io/myBookshelf/*): Vue.js app with the Transition API, facilitating effortless book exploration via the Google Books API. Users easily search, purchase, or download free books, ensuring a streamlined and enriching reading experience.