



MEGHANA KHUNTIA

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Experienced software developer with a focus in application development. Strong skills in object-oriented design, debugging, testing, and maintaining scalable software solutions. Currently working at SAP Labs transforming requirements into efficient solutions. Previously worked in Mckinsey & Company.

SKILLS

- **Programming:** Java, Python, JavaScript, TypeScript, Matlab, C++
- **Backend:** Express.js, Node.js, Spring Boot, Kafka, PostgreSQL, MongoDB, CMS, GraphQL, REST API
- **Frontend:** React.js, Redux, React Native, Next.js, SAP UI5, NGINX
- **Others:** Git, Unit Testing, AWS, Argo, Docker, SonarQube, Docusaurus

EXPERIENCE

Software Developer Intern | 07/2024 - Current

SAP Labs Vancouver

- Built security automation tools and maintained software using modern object-oriented design principles.
- Automated vendor website monitoring and cataloged bulletin releases into a platform using ReactJS, Spring Boot, and Microservices
- Debugged and tested software implementations to ensure performance and scalability.
- Created reusable email services to consolidate vulnerability data globally using SAP UI5, Spring Boot, and Kubernetes.
- Developed APIs with pagination for efficient data retrieval and managed onboarding documentation using SharePoint, Swagger UI.
- Proficient in maintaining, enhancing, and optimizing existing applications to ensure performance, scalability, and reliability.
- Actively worked on bug fixes and organised proof of concept (POC) sessions with the team for different implementation flows of new features.
- Participated in peer reviews and provided feedback on improving functionality of the code.

Full Stack Developer | 02/2021 - 08/2022

Mckinsey & Company, Bengaluru

- Worked in the healthcare domain for clients from North America to build the Pharmacy/Pharmacist portal, including authentication/authorization, payment gateway integration, and insurance provider integration. (ReactJS, TypeScript, Java, Spring Boot, Docker)
- Integrated a points collection logic for loyalty program customers for one of the major clients in the e-commerce domain within the CMS, delivering scalable solutions. (Strapi, Node.Js, React.Js)
- Build a banking digital assets end to end, making plug-in microservices interacting with 3rd party APIs and collaborated with clients across regions . (React Native, NestJS, Kafka, GraphQL, Docker, PostgreSQL, Backstage, TypeORM, CI/CD)
- Used Jira to maintain and track stories and tasks in a sprint, and running the daily stand-up with cross-functional teams to achieve sprint goals.
- Integrated SonarQube to implement best coding practices and documented technical knowledge for client developers..
- Created a tool that automates the generation of interconnected routes, streamlines database instance creation, and facilitates the implementation of health check routes by providing a skeleton backend to implement basic functionalities.

EDUCATION

University of British Columbia | Masters in Science - Computer Science | 08/2022-07/2024 | GPA - 4.0/4.0

Coursework includes - Convex Optimization and Non-smooth Analysis, Database System Implementation, Parallel Computing, Advanced Algorithms, Blockchain Technology.

Anna University | Bachelor of Engineering - Computer Science | 2017-2021 | GPA - 9.37/10

PROJECTS

- University of Hana & Analytics | 12/2024
Developed a platform to manage learning materials for new developers at SAP, enabling course registration and progress tracking (ReactJs, ExpressJS, MongoDB, OAuth2, SharePoint Integration).
- [Crypto Emporium](#) | 01/2023
A NFT app that delivers a robust and reliable platform for artists and collectors to engage with the exciting world of NFTs, empowering creators and enabling collectors to own unique digital assets securely using Alchemy and Pinata services.
- FireBackOps | 06/2022
An application designed to help developers in bringing backend servers to life with the minimum amount of hassle and minimal code. It provides an easy-to-use UI wherein a developer can collaborate and create custom backend servers with just a few clicks and the fabricated server is directly pushed to Github for sharing, testing and deployment.
- Mckinsey Internal Hackathon | 07/2022
Built a conversational interface for the banking app (text or speech) which could allow users to interact with banking functions in a more easy manner.

RELEVANT EXPERIENCE

Research Assistant | 09/2022 - 07/2024

University of British Columbia

- Researched on a road design optimization problem for mining regions, with a particular emphasis on developing a highly precise fuel cost estimation model ([Read more](#)).
- I transformed the complex quartic nonlinear fuel cost model into a quadratic model and further down to a mixed integer linear programming model to solve the model using widely adopted commercial solvers.
- Reviewed experimental data to catch potential floating-point errors and integrate the model with the existing one.
- Conducted comprehensive literature reviews to understand existing methodologies on the research topic, and implemented a few of them on a synthetic dataset.

Teaching Assistant | 09/2022 - 07/2024

University of British Columbia

- Designed and organized labs for courses including Computer Graphics, Data Structures, Machine Architecture and Parallel Computing.
- Prepared lesson materials and visual aids to reinforce lesson concepts.
- Tutored students in course material and conducted mid terms.

HONORS & AWARD

- UBC Okanagan Graduate Research Scholarships
- Anna University Rank Holder (Undergrad)
- NPTEL C programming Elite Certified
- Second prize in internal Global level Hackathon(Internal to Mckinsey)

ARTICLES

- [Enhanced pooling technique for convolutional neural network \(Medium\)](#)
- [DIY: Custom ESLint Plugin \(Medium\)](#)

CERTIFICATION

- [AWS Fundamentals: Building Serverless Applications](#)
- Algorithmic Toolbox
- NPTEL C programming Certification
- CISCO Certified Network Associate Industrial (CCNA I)