



MEGHANA KHUNTIA

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Experienced software developer with a focus in backend development, building server-side applications. 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, Redux, NGINX
- **Others:** Git, Unit Testing, AWS, Argo, Docker, SonarQube, Docusaurus

EXPERIENCE

Software Developer Intern | 07/2024 - Current

SAP Labs Vancouver

- Working as a full-stack developer, building security automation tools to support customers, as well as internal applications.
- Developed a tool to automate vendor website monitoring, cataloging daily bulletin releases, and integrating them into a platform using NIST frameworks (ReactJS, Spring Boot, Microservices, REST API, Postgres, OAuth2, and Splunk).
- Build cron jobs to fetch data from the NVD (National Vulnerability Database) and notify the Vulnerability Management team through automated emails. (SMTP Server, SAP UI5, Java)
- Designed and implemented a reusable email service to consolidate vulnerability data submitted by researchers globally, offering businesses actionable insights into potential risks, including outdated software, weak configurations, and access control loopholes (SAP UI5, Spring Boot, Microservices, Kubernetes).
- Developed APIs with pagination to efficiently retrieve and manage large datasets, ensuring optimal performance and user experience.
- Created onboarding documentation for developers using Docusaurus, and integrated Swagger UI for comprehensive API and microservice documentation.

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 and exceeded customer satisfaction by finding efficient solutions. (Strapi, Node.Js, React.Js)
- Build a banking digital assets end to end, including plug-in microservices, which were pitched to various clients and provided an opportunity to work with clients from different regions. (React Native, NestJS, Kafka, GraphQL, Docker, PostgreSQL, Backstage, TypeORM, CI/CD)
- Prepared documentation, and presented technical knowledge transfer to client developers.
- Used Jira to maintain and track stories and tasks in a sprint, and running the daily stand-up with cross-functional teams to achieve goals.
- Integrated SonarQube into the codebase to implement best coding practices.
- 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)