

Shubham Singhal

Full Stack Engineer

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Skills

Frontend

React, Redux, Node, Angular, React Native, Typescript, SCSS, JS, HTML, CSS

Backend

Spring Boot, FastAPI, Hibernate, SQL, Postgres, MongoDB, Java, Python

CI/CD

Docker, Bamboo, Git, Bash

AWS: S3, EC2, RDS, DynamoDB, DMS and other AWS offerings

Frameworks/Tools

Stripe, APIGEE, Salesforce, Wordpress, Kafka

Material libraries, integration libraries and various in-house tools

AI and Machine Learning

LLMs: Prompt Engineering, Agentic AI, integration with various Large Language Models

Core: Tensorflow, Keras, PyTorch, Scikit-Learn, R

Education

Master of Artificial Intelligence

Western Sydney University

2021 – 2023

Learning about the cutting edge AI and ML models while working on real-world projects involving generative AI.

Profile

- Master's in AI and Bachelor's in Computer Science.
- About 5 years of full-stack development experience.
- Proficient in full-stack development and extensive experience with AI. Passionate about learning new technologies.
- Love to work on creative projects in my free time and experienced in working with small and large teams.

Professional Experience

Macquarie Group Limited

Full Stack Developer

Sydney, Australia

5th Feb 2024 - Present

- **AI:** Led a project that could generate full functioning apps based on a Jira Story or zoom meeting transcript.
- **Solution Design:** Translated business requirements into actionable plans by creating detailed specifications and collaborated with stakeholders to refine features and workflows.
- **Architecture:** Designed scalable and maintainable system architectures, balancing performance, security, and reliability.
- **Frontend:** Accessible, Dynamic and Responsive frontend design with Angular and React.
- **In-house libraries:** Created and maintained a scalable and modular UI library housing commonly-used design patterns and components.
- **Backend:** Scalable software and API development with Spring Boot, Hibernate and FastAPI. Automated processes to make development and deployment faster.
- **UI/UX:** Closely worked with designers on technologies like Figma to ensure consistent and user-friendly designs.
- **DevOps:** Worked with Docker, Bamboo, AWS and an in-house CI/CD platform to automate deployments.
- **Security:** Solely worked with Security Analysts on closing major Open Pages.
 - Implemented a network firewall (WAF) to block suspicious requests and attacks.
 - Overhauled the Load Balancer to work seamlessly with the firewall.
- **Testing:** Worked on unit, automation, integration and regression testing to ensure reliability.

Digital Purpose

Full Stack Engineer

Sydney, Australia

31st Mar 2022 - 31st Jan 2024

- **Frontend:** Accessible, Dynamic and Responsive frontend design with Angular, React and React Native.
- **Backend:** Scalable software and API development with Spring Boot and Hibernate.

Bachelor of Computer Science

Manipal University

2015 – 2019

Learned about the fundamentals of Computer Science, ranging from basic concepts to higher level code design.

- **Integrations:** Integrating the backend and frontend with various services such as Salesforce, Cognito, AWS, AMS and others.
- **UI/UX:** Worked with technologies like Figma to deliver a perfect user experience.
- **Research:** Researching various requirements and providing solutions and designs for them.
- **AI:** AI technologies such as OpenAI, Sagemaker, LLMs and custom models to provide cutting edge technologies to clients.
- **DevOps:** Deploying applications, load testing servers, debugging logs and optimising performance with AWS S3, EC2, Cloudfront, Sagemaker etc.
- **Testing:** Testing applications with Zephyr, Junit, Selenium and JMeter.

Amadeus

Full Stack Engineer

Bangalore, India

17th July 2019 - 17th July 2021

- **System design:** Created the architecture, design and requirements for a major billing overhaul that revamped the company's API payments system.
- **Frontend:** Worked on an enterprise-level portal using Angular and Drupal that could handle thousands of customers.
- **Backend:** Worked on microservice-based backend APIs, implemented in Spring and Hibernate.
- **API usage and billing:** Worked with APIGEE to implement billing and API quotas for customers.
- **App Security:** Performed regular audits and improvements to the code's security.
- **Maintenance and QA:** Fixed production and testing bugs and performed automated tests using Selenium.
- **Release Management:** Headed 3 quarterly releases to production, where I was responsible for delivery and quality assurance, along with various DevOps tasks.