Subham **Agarwal**

FULL STACK SOFTWARE ENGINEER · INDIA/REMOTE

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Summary

I am a experienced **full-stack software engineer with a track record of over 8 years** in developing web applications. I have successfully led teams at both B2B and B2C startups, consistently prioritizing the delivery of exceptional products. Beyond my adept coding skills, I possess a knack for **quickly learning new technologies**, offering a proven ability to add value holistically.

My expertise lies in building **scalable backend systems as well as intuitive client-side applications**. I stay ahead of the technological curve, leveraging this knowledge to develop smart and creative solutions that help businesses achieve their goals.

Skills

Programming	Python (Flask, FastAPI, Django), TypeScript (React.js, Redux, React-Native)
DevOps	Ansible, Docker, AWS, Google Cloud, Debian/Ubuntu
Data	PostgreSQL, CockroachDB, Cassandra, Redis, Apache Artemis, RabbitMQ
Miscellaneous	WebRTC, REST API Design, Micro-services, X.509, Web Scraping

Work Experience

Independent Contractor   *Remote*
FULL STACK ENGINEER   *November 2021 - Present*

- Strategic guidance to clients for **transforming ideas into tangible products** - assisting them in fleshing out ideas, planning MVP scopes, defining the product development life cycle (PDLC), and successfully implementing & shipping the products.
- Consulted with a 12-member team to optmize their development and deployment workflows by introducing a Docker-based environment replicating a production-like setup. Implemented automated deployment using Ansible for swift and reliable service rollout, enhancing overall efficiency in software development and testing workflows.
- Successfully **migrated a hard to maintain monolithic application to a microservices architecture**, enhancing scalability, reducing latency time, and ensuring high availability for a growing user base.
- **Architected & developed B2B APIs** emphasizing high test coverage, automated business logic flow recovery, and prioritizing security, regulatory compliance, audit requirements, scalability, high availability, and long-term maintenance.

Abodos Technologies   *Remote*
FOUNDING MEMBER & SENIOR SOFTWARE ENGINEER   *August 2020 - October 2021*

- **Re-architected react-native based mobile application to be local-first**.
- Wrote a library to manage text translations for existing apps and integrated it with a translation service to automate the process.
- Helped improve processes for three development teams, reducing the deployment as well as development environment setup by over 80%.

Construe Labs   *Remote*
FULL STACK ENGINEER   *October 2015 - July 2020*

- Developed an end-to-end solution, **Solutions Irrigation**, providing Arizona residents with a user-friendly dashboard to monitor their water supply schedules, while also ensuring minimal human errors for operators.
- Worked with the **Arizona State University**'s research department to develop and present the MVP for 4 research projects, across diverse stacks & technologies such as ML models, and PWA web applications.
- End-to-end development of scalable web-based applications and cross-platform mobile apps using React-Native.
- **Implemented CI/CD pipelines**, leveraging latest containerization models to facilitate seamless quality assurance and deployments.
- **Led end-to-end recruitment efforts**, including question bank creation, designing hiring processes, resume reviews, and job description specifications. Conducted interviews with over 50 candidates, resulting in the successful hiring of 3 highly talented individuals.

Education

Lovely Professional University   *Punjab, India*
BACHELOR'S OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING   *August 2013 - May 2017*

- Organized a workshop on Python, backend API and integration with android applications.
- Led the development of sports website of the department of student affairs.

Interests

- **Side-Projects:** Actively solving personal challenges and enhancing daily tasks through skill application and expansion.
- **Privacy Enthusiast:** Like to self-host services like PiHole, Bitwarden, Firefly-III. Constantly learning about web security.