Dixit Sabharwal

Junior Software Developer

I am a full-stack developer, trying to stay ahead of the newest trends in building engaging and consistent frontends, as well as developing maintainable APIs that adhere to open standards. Also proficient in deploying these solutions across various environments; from Kubernetes clusters to bare-metal on-premises servers. I'm dedicated to learning and building systems that are reliable and practical but also scalable where needed. I am particularly interested in working on projects or with companies that support open-source software or work in the public sector.

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WORK EXPERIENCE

Software Development Engineer Intern
Amazon - AWS

08/2022 - 02/2023   *Berlin, Germany*
Amazon Development Center

Achievements/Tasks
- Built a management console to empower ongoing migration of service to a new data-model and data-store.
- Console includes a web UI to query, view and diff data between old and new versions, and trigger different tasks, e.g. replications or audits, in the migration pipeline.
- React/TypeScript | Serverless AWS stack in Kotlin | AWS CDK.

Web Developer
Dizconto Ltd.

04/2020 - 07/2020   *Den Haag, Netherlands*
Tasks
- Built a management console frontend for Dizconto, which provided social media marketing integrations for existing e-commerce sites.
- Converted mockups into usable web presence with React and NodeJS in TypeScript.
- Also worked on implementing a development and deployment (CI/CD) pipeline using Terraform and AWS.

Teaching Assistant
Faculty of EEMCS, TU Delft

09/2019 - 06/2021   *Delft, Netherlands*
Tasks
- Teaching Assistant for > 10 different courses from the Computer Science program.

EDUCATION

MSc Computer Science
EPFL

08/2021 - Present
Courses
- Following courses on Databases and Large-scale Data management, to obtain a specialization in Data Analytics
- Also taking courses on Software Security, Information Privacy, and Compilers

BSc Computer Science and Engineering
Technische Universiteit Delft

09/2018 - 06/2021
Info
- Graduated with **cum laude** and a **GPA** of **8.8.**
- Thesis on "Formal verification of functional programs in Haskell and Agda".
- Minor in Quantum Science and Information.
- OOP & FP | Algorithms, Database systems, Software Engineering.

SKILLS

- Agile Scrum work environments
- Programming in Java/Kotlin, Golang, Python JavaScript/TypeScript
- UIs with React.js, Remix, HTML/CSS
- Databases with SQLite, PostgreSQL, mySQL
- Large-scale data management with Apache Hadoop, Spark
- Deployment environments on AWS, Azure, Kubernetes
- Infrastructure as code with AWS CDK, Terraform
- Functional concepts in Scala, Haskell
- Data Analysis in Pandas, Scikit-learn

PROJECTS

Autograder (06/2023 - 08/2023)
- Part of team that set-up an automatic grading system for programming assignments. Through a Moodle plugin and Kubernetes cluster the system allowed for easy scalability and fault-tolerance during peak times of the semester.
- Created a controller (using Spring and Java) that runs each submission as a Job on the Kubernetes cluster. The controller sets up the env for the grading task, and returns the outcomes to Moodle.
- Set-up CI/CD pipeline using GitLab CI that automatically deploys the controller and Moodle in a staging environment, for quick integration testing and feedback.

LightingNetwork research (08/2020 - 11/2020)
- Analysed code bases of Bitcoin layer-2 networks for transaction anonymity and security bugs as well as compliance with the *Bolt* protocol.
- Simulated transaction routing in Python graphs modelled on the Bitcoin network topography to generate data to be used in further experiments.

LANGUAGES

English
Native or Bilingual Proficiency

Hindi
Native or Bilingual Proficiency