

Uday Jain

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www.github.com/uday1331

Core: Javascript, Python, C/C++, Java, Shell, Git

SUMMARY

Web, Mobile & Database: (proficient): React.js, Node.js, Express.js, GraphQL, Prisma, MongoDB, SQL (familiar): React Native, Redux, Junit, Micronaut, Lightbend Akka

DevOps & Serverless: (proficient): Docker, Kubernetes, Helm (familiar): Apache Kafka

EDUCATION

Pok Fu Lam, Hong Kong

The University of Hong Kong

Sept 2018-May 2022

- **Major:** Engineering in Computer Science, **CGPA:** 3.62/4.30
- **Relevant Coursework:** Modern technologies on the WWW, Data Structures & Algorithms, Object Oriented Programming in Java, Computer Organisation

EXPERIENCE

Software Development, Intern

KM.ON by Karl Mayer

Jun 2020-Aug 2020

- Potentially saved thousands of dollars' worth of Auth0 expenditure by implementing an open source OAuth2 solution.
- Instrumented server-side app authentication through JWT parsing (and JWK caching).
- Improved cloud cluster reliability by 25% through contributions to the integration testing platform.
- Executed time saving zero friction development workflows in the cloud cluster through automated pipelines utilising Kubernetes namespace tenancy.
- Leveraged Knowledge in Oath2 Implementations (ORY Open Source), Lightbend Akka (Scala), JUnit, Micronaut, Kubernetes, Helm, Docker, Docker Compose, Bitbucket Pipelines, Apache Kafka, Shell, Git

Software Development, Intern

HEX Trust

Dec 2019-Jan 2020

- Demonstrated highly effective communication, interpersonal, and teamwork skills by implementing a full-stack employee portal from scratch (used by team of 10).
- Increased efficiency of administrative tasks by building interactive web forms replacing long and tedious SQL queries
- Improved backend scalability through clean implementation of RESTful APIs.
- Securely handled Cross Origin Resource Sharing (CORS) by implementing and configuring a reverse proxy.
- Leveraged Knowledge in Full Stack Development, React.js, Express.js, Typescript, Node.js, Nginx, Knex, Shell, Git

SOFTWARE PROJECTS

Personal Website: www.udayja.in (for additional information and projects)

StudentBase

An online student learning platform with 10,000 active users and 100,000+ page views (monthly average), @ www.studentbase.app

- Worked in a team of 3 to develop a full-stack web application: Node.js + GraphQL server with 90% test coverage, Prisma + PostgreSQL integration, React frontend, Google Analytics, 100% in Typescript.
- Improved tutor-student communication significantly by implementing and integrating live chat into the platform
- Increased post visibility by 200% by implementing a hot posts algorithm for sorting posts.
- Exponentially reduced possibility of spam through a post approval workflow by implementing a user permission hierarchy.
- Utilised: Typescript, React.js, GraphQL, Prisma, Express.js, Node.js, GraphQL Subscriptions, Apollo PubSub, GraphQL Shield

Codesplash

Collaborative online IDE launched to support STEM education initiatives at The University of Hong Kong, @ www.codesplash.app

- Developed a full-stack web-based IDE for the python language, working in a team of two developers.
- Achieved real time code sharing in the code evaluation service using web sockets.
- Produced an automated & SSL secured deployment by implementing a continuous integration & deployment pipeline
- Decreased evaluation service image size by 80% through optimised multistage builds.
- Utilised: Typescript, React.js, GraphQL, Prisma, Express.js, Node.js, Socket.io, Docker, Docker Compose, GitHub Actions, DigitalOcean Droplets

AWARDS

1st Runner Up and Best Design, WHub, DBS Bank and HKECIC Fintech Week Hackathon 2019

ADDITIONAL EXPERIENCE & INITIATIVES

Co-founder, HKU Lap Chee College Tech Club

- Established the club and initiated two projects for event organization and management within the college

Executive Committee Member, HKU Machine Learning Society

- Responsible for organizing panel discussions and academic talks by industry leaders