

# Uday Jain

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[www.github.com/uday1331](https://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, **Minor:** Sociology, **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 2022**

- 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 Oauth2 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](https://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](https://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](https://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

**1<sup>st</sup> 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