Uday Jain | Core: JavaScript, Python, C/C++, Java, Shell, Git

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EDUCATION

The University of Hong Kong (HKU)   **May 2022**
Bachelor of Engineering; Major in Computer Science

- Awards: HKU Foundation Entrance Scholarship, HKSAR Government Scholarship Fund - Reaching Out Award
- Leadership: HKU Machine Learning Society (Board Member)
- Coursework: Modern technologies on the World Wide Web, Data Structures & Algorithms, Object Oriented Programming in Java, Computer Organisation

PROFESSIONAL EXPERIENCE

KM.ON by Karl Mayer   **June 2020 – August 2020**
Intern, Software Development

Leveraged Knowledge in Oath2 Implementation, Lightbend Akka Framework (Scala), JUnit, Micronaut, Kubernetes, Helm, Docker, Docker Compose, Bitbucket Pipelines, Apache Kafka, Shell, Git.

- Supported the DevOps team through contributions to the Kubernetes cluster
  - o Initiated the transition to automated & isolated deployments, freeing 2+ hours of debugging time each day.
  - o Contributed to the integration testing platform, improving cluster reliability by 25%.
- Implemented an open source Oath2 solution by ORY, saving thousands of dollars' worth of Auth0 expenditure.
- Instrumented server-side JWT authentication; significantly increasing app security.
- Selected out of 3 interns to present the cloud cluster to team of 50+ including C-level executives.

HEX Trust   **December 2019 – January 2020**
Intern, Software Development
Leveraged Knowledge in Full Stack Development, React.js, Express.js, TypeScript, Node.js, Nginx, Knex, Shell, Git.

- Lead the team in building a customer asset management portal for the administrative team (used by team of 10);
  - o Increased efficiency of administrative tasks by developing interactive web forms replacing hundreds of long and tedious SQL queries; Promoted to full stack development for efficient work.
- Demonstrated effective communication with administration & operations by delivering an accurate product; Enhanced backend scalability through clean implementation of RESTful APIs.

SOFTWARE PROJECTS

StudentBase @ www.studentbase.app   **September 2019 – Present**
Developed by a team of 3: Node.js + GraphQL server with 90% test coverage, Prisma + PostgreSQL integration, React frontend, Google Analytics, 100% in TypeScript.

- Integrated GraphQL Subscriptions based live chat, encouraging communication between 10,000 + monthly users.
- Executed a user permission & post approval system based off GraphQL Shield, eliminating possibility of spam posts.
- Boosted post visibility by 200% by applying a hot posts algorithm for post discoverability.

Codesplash @ www.codesplash.app   **June 2020 – Present**
Developed by a team of 2: Socket.io live code sharing, Node.js + GraphQL server, React frontend, Dockerised, 100% in TypeScript, deployed on DigitalOcean droplets.

- Created a web-based IDE for the python language; Used by HKU Change The Code in workshop (35+ participants) to promote Female STEM education in India.
- Decreased evaluation service image size by 80% through optimized multistage builds.
- Produced an automated & SSL secured deployment by implementing a continuous integration & deployment pipeline.

AWARDS

- **1st Runner Up and Best Design** (100+ participants) - WHub, DBS Bank and HKECIC Fintech Week Hackathon 2019
- **Best Delegate** (30+ participants) - Hong Kong Model United Nations 2019