

# Kushal Srivastava

SENIOR SOFTWARE ENGINEER

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## About Me

Results-driven Software Engineer with a diverse skill set and a passion for innovation and problem solving. Experienced in delivering robust solutions, optimizing software performance, and thriving in fast-paced environments. Nerds out on MCU and Power Rangers trivia.

## Work Experience

### Zluri

#### SENIOR SOFTWARE ENGINEER

Apr. 2025 - Present

- Revamped notification service with minimal impacts, reducing peak-hour message delivery latency from **2 hours** to under **1 minute**.
- Performed cross-functional bug bashes and refactored critical legacy modules, resulting in a **33%** drop in on-call tickets.
- Improved system reliability and maintainability by implementing robust **service-level disaster recovery** and optimizing performance through query enhancements.
- Ideated & implemented a development workflow for the organization using feature environments, automated testing etc. for multiple services and background jobs resulting in higher engineering productivity and faster project delivery
- **Mentored junior engineers and interns** through onboarding, code reviews, and project execution.
- Tools and Technologies used: TypeScript, NodeJS, Golang, Kafka, MongoDB, Postgres, AWS, CI/CD.

#### SOFTWARE DEVELOPMENT ENGINEER

Nov. 2023 - Mar. 2025

- Lead the development of a greenfield project, **Multilevel Access Reviews**. Delivered with exceptional code quality and a extensible design making agile future development possible and work **at scale**, resulting in a robust new revenue stream.
- Achieved a **65% reduction in the time** required for raising and approving application requests by engineering Slack integrations for the same.
- **Improved operational excellence** by promptly tackling on-call issues and service/API failures.
- Collaborated with Product Managers, Design, and Customer Support teams to proactively deliver features and address customer pain points.
- Led the efforts within my team to **migrate our database** from MongoDB to Postgres, ensuring data integrity and relational consistency. Contributed to the organization's broader migration strategy.
- Leveraged **AWS DMS** for efficient data migration and developed **DBT scripts** to format and structure data accurately in Postgres tables. Built the Data Access Layer and migrated APIs and background jobs to integrate seamlessly with Postgres.
- Tools and Technologies used: Javascript, TypeScript, NodeJS, MongoDB, Postgres, Bull MQ, Argo, AWS S3, AWS DMS, DBT, Sentry, Datadog.

### Captain Fresh

#### SOFTWARE DEVELOPMENT ENGINEER

Jun. 2022 - Oct. 2023

- Spearheaded the **remodeling of the finance module**. Worked with Product Managers to develop technical specifications. Designed and built the **backend service** to process all **vendor/customer payments**, and incorporated credit/debit knock-off behavior in a **scalable** fashion.
- Achieved a **4x performance boost** in payment processes compared to the previous Zoho ERP setup.
- Implemented **two-way sync** between the previous ERP and the new Finance service in a **master-slave setup** for transactional integrity.
- **Contributed vital UI components** to the Finance Module, **accelerating product development** while emphasizing collective efficiency.
- Tools and Technologies used: Java, SpringBoot, Golang, Service Framework, Hibernate, PostgreSQL, AWS S3, AWS SQS, AWS SNS, ReactJS.

#### BACKEND INTERN

Jan. 2022 - May 2022

- Built the **first production ready version of in-house Finance Backend module** from scratch to handle customer and vendor transactions.
- Designed and implemented transaction and ledger behaviour, integrated Razorpay payment schemes to handle order processing and refunds.
- **Engineered an expense module** which accepted company wide expenses and validated them based upon expense category and type.
- Tools and Technologies used: Java, SpringBoot, Hibernate, JHipster, PostgreSQL, Golang, Iris, MongoDB.

### D.E. Shaw & Co.

#### SOFTWARE INTERN

May. 2021 - July. 2021

- Developed and deployed an in-house toolset from scratch to aggregate, display and update datasets informations used by Finance wing.
- **Enhanced overall productivity by 200%** by reducing the dependence of the financial stakeholders over Ops team and eliminating slow e-mail based communications.
- Tools and Technologies used: ReactJS, Redux, Python.

## Projects

### Distributed File System

#### BACKEND APPLICATION

Java, SpringBoot

- Developed a Distributed File System, **based on Google File System**, composed of a master server, multiple chunkservers and clients.
- Implemented file-handling strategies at chunkserver level; handled multilevel failure cases.
- Project Link - <https://github.com/kushrike/gfs>

### Zemotacqy

#### WEB APP - WINNING PROJECT AT HACK36

Javascript, Flask

- A platform that would **help doctors in assessing the growth and improvement** of their patients suffering from mental disorders like **ADHD** by running a set of **research-backed cognitive tests**, resulting in comprehensive and actionable insights.
- Project Link - [https://github.com/kushrike/all\\_kavs36](https://github.com/kushrike/all_kavs36)

## Education

### Birla Institute of Technology, Mesra

#### B.TECH IN INFORMATION TECHNOLOGY

Ranchi, India

- CGPA : 8.71/10

## Honors & Awards

2020 **Winner**, HACK36 - National level hackathon at MNNIT Allahabad. Teamname - "all\_kavs"

MNNIT, Allahabad