Hrishikesh Kulkarni

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EDUCATION

Northeastern University — Masters, Information Systems   Boston, MA
GPA: 4.0 - Web Development, Data structures, System Design, Cloud Engineering   *Expected May 2026*
ITS Technician - Supported 500+ users, resolving hardware and software issues and gaining experience in network systems

Pune University — Bachelors, Information Technology   Pune, India
GPA: 3.5 – Object Oriented Programming, Design Patterns and Algorithms, Operating Systems   *Aug 2016 - May 2020*
Teaching Assistant - Built a secure authentication and real-time messaging system for university staff, faculty and students

TECHNICAL SKILLS

Programming languages: Java, Python, C/C++, Javascript, Linux Shell Scripting, Go
Database technologies: MySQL, MongoDB, PostgreSQL, SQLite
Front-end frameworks: HTML, CSS, Bootstrap, React.js, Next.js, Typescript, Tailwind CSS, Material UI
Back-end frameworks: Nodejs, Django, Flask, Fast API, Express.js, Redux, Firebase, Swagger
Cloud Technologies: Kubernetes, Docker, OpenShift, AWS, Azure, EKS, GCP, Jenkins, Ansible, Grafana, Argo CD
Developer Tools: Git, Jira, VS Code, Intelli J, JUnit, Confluence, PyCharm, Eclipse, Postman

EXPERIENCE

Barclays   Pune, India
Software Engineer   *Apr 2022 - Aug 2024*
- Engineered a Rasa based **NLP** chatbot integrated with **Fast API** to automate responses for 250+ FAQs, supporting 15,000+ users, and improving operational efficiency in **Docker, OpenShift** environments
- Deployed a **React.js, Flask,** and **MongoDB** based Decommission application, streamlining the management of 6,000+ projects, reducing deletion errors by 30%, and accelerating task completion
- Consolidated **Linux** virtual server data from 100+ virtual environments using **Django** and **Bootstrap**, improving operational visibility and streamlining the management of **Barclays Container Platform (BCP)**

Private Cloud Engineer   *Aug 2020 - Apr 2022*
- Gained expertise in containerization technologies (**Docker, Kubernetes, OpenShift, AWS, GKE, Azure**) through a 6-week **Red Hat training** program, boosting cloud-native deployment skills
- Led the design and deployment of 8 **Argo CD** managed **OpenShift** clusters, optimizing networking and storage configurations to ensure high availability and resource efficiency for critical applications
- Facilitated resilience testing for 90,000+ **microservices**, improving system reliability and ensuring consistent availability, leading to a 35% increase in overall production environment uptime

PROJECTS

Super Mail / *SaaS, Next.js, Shad CN, Typescript, Clerk, PostgreSQL, Stripe, AWS SES* [[GitHub](#)]   *Jan 2025 - Present*
- Integrated **AWS SES** to enhance email communication by automating suggestions and responses, reducing user response time by 50% and boosting overall productivity by 25%
- Leveraged **Next.js** App Router to develop a high-performance, scalable platform, optimizing load times and enabling users to save significant time while responding to emails, improving efficiency
- Implemented Stripe for secure and seamless payment processing, simplifying subscription management, and designed the platform to support 3+ payment models in the future to accommodate user needs

Hobby Hub / *React.js, Express.js, Redux, Socket IO, Mongo DB, Tailwind CSS* [[GitHub](#)]   *Nov 2024 - Dec 2024*
- Collaborated with a team of 5 to create a **React.js** based platform that connects users, admins, and business owners based on shared hobbies, incorporating real-time communication features with **Socket.IO**, enhancing engagement
- Engineered a robust role-based user system with 5 roles (Super Admin, Admin, Business User, Regular User, Guest) using **Express.js** and **Rest APIs**, ensuring secure and scalable access control
- Enabled Super Admins and Admins to manage and save data from 20+ hobby communities in **MongoDB**, ensuring data encryption and hashing to safeguard user privacy and prevent data breaches

Crisis Connect / *Spring Boot, Maven, Swift, SQL, DB4O, SMTP* [[GitHub](#)]   *Sep 2024 - Dec 2024*
- Designed a Disaster Response and Recovery Platform (DRRP) with **Spring Boot**, **SQL**, and **DB4O** to facilitate real time communication and resource management, scalable for large urban populations like Boston
- Ideated an ecosystem with 10+ roles (emergency teams, NGOs, government agencies), optimizing disaster response coordination and reducing overall response times by 25%
- Automated real-time email notifications via **SMTP** for 500+ citizens, ensuring timely alerts and recovery updates, with the capability to scale to meet the city's needs