

# Bhavuk Kalra

Portfolio: [bhavukkalra.github.io](https://bhavukkalra.github.io)


Github: [github.com/bhavukka](https://github.com/bhavukka)

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## EXPERIENCE

- J.P Morgan Chase and Co.** In Office  
*Senior Software Engineer (Full-Time)* June 2021 - Present
  - Modernized cloud infrastructure:** Led the migration of on-prem batch systems to AWS-based solutions, processing 3.6M+ records/day with Databricks and SpringBoot, boosting ingestion speed by 40%, and cutting DBU costs by 35% across multiple production workloads, cutting DBU consumption by 35% and delivering \$100K+ annual cost savings.
  - Optimized production workloads:** Improved containerized microservices by fine-tuning Kubernetes pods and Databricks clusters, achieving 35% compute reduction through efficient resource management and Terraform-based orchestration.
  - Developed scalable RESTful APIs:** Built and maintained high-throughput backend services using Spring Framework, AWS (DynamoDB, SQS, SNS), and Terraform, improving ETL pipeline performance by 50% for production-scale use cases.
  - Mentored junior developers:** Conducted code reviews, design sessions, and onboarding walkthroughs to foster a collaborative, high-quality engineering culture.
  - TechStack:** Java, SpringBoot, Hibernate, AWS (DynamoDB, SQS, SNS, EC2), Databricks, Terraform, Docker, Kubernetes, React.js, SQL
-  **Hoppscotch India Pvt. Ltd.** [\[LINK\]](#) Remote  
*Software Developer (Internship)* March 2021 - June 2021
  - Developed multi-platform applications:** Contributed to the launch of Coinbase in India by building accessible cryptocurrency solutions for web, iOS, and Android platforms, enhancing user engagement by 30%.
  - Optimized real-time application performance:** Designed systems to deliver high-frequency, low-latency updates, improving transaction processing speed by 25% and minimizing user wait times.
  - Collaborated on cross-functional teams:** Worked closely with engineers, designers, and product managers to translate technical vision into actionable roadmaps, ensuring project alignment and timely delivery across departments.
  - Wrote high-quality tested code:** Implemented rigorous testing protocols for developed software, achieving a 95% code coverage rate and reducing bug reports post-launch by 50%.
  - Fostered a culture of feedback and growth:** Actively sought and provided constructive feedback within team settings, contributing to a 20% increase in collective team productivity and personal development.
  - Enhanced security protocols:** Implemented advanced security measures for fraud prevention in systems, safeguarding user data and reducing exposure to security threats by 40%.
  - TechStack:** Golang, MongoDB, AWS, Docker, Postgres, Ruby, Rails, React Native



## TECHNICAL PUBLICATIONS

- Generalized Agent for Solving Higher Board States of Tic Tac Toe Using RL in IEEE PDGC-2022 [\[LINK\]](#)
- Advanced Regex-Optimized Framework for Large Scale Data Quality Assurance

## EDUCATION

- Thapar Institute of Engineering and Technology** Punjab, India  
*Bachelor of Engineering - Computer Engineering;* 2018 - 2022

## PROJECTS

-  **Password Management System** [\[LINK\]](#): A MERN stack based online Password Management Portal
  - Enterprise-grade backend: Designed RESTful services in Node.js with JWT and 2FA integration using AWS SES, following security-first design and Terraform-based provisioning.
  - End-to-end testing and CI/CD: Implemented TDD using Jest and Cypress, with automated deployment via Docker and GitHub Actions for consistent feature delivery.
  - Role-based access control: Managed CRUD operations on MongoDB with schema validation and session handling, supporting multi-user roles and audit-ready logs.
-  **Poll Taker App** [\[LINK\]](#): Online Poll taker App build upon MERN stack
  - Microservice architecture: Built containerized backend services with RESTful APIs and real-time vote visualization using ChartJS; deployed with Kubernetes for scalable rollout.
  - Infrastructure-as-Code: Managed CI pipelines and environment config using Docker and Kubernetes, with potential extensions to Terraform for full IaC integration.
  - Tech Stack: Node.js, MongoDB, React, Redux, Docker, Kubernetes, ChartJS, Jest

## AWARDS AND CERTIFICATIONS

- Runner's-up at JP Morgan's Code for Good Hackathon
- AWS Certified Developer Associate
- Hacky New Year Hackathon Winner organized by MLH