

# 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
  - Led the cloud migration of on-prem:** infrastructure to AWS, enabling scalable processing of 3.6M+ records/day across 54 data pipelines; boosted data ingestion efficiency by 40% using Databricks workflows.
  - Optimized compute resource usage:** across multiple production workloads, cutting DBU consumption by 35% and delivering \$100K+ annual cost savings.
  - Handling Large Scale Data:** leveraging Databricks external Delta tables, reducing execution time from 30 minutes to 15 minutes per run (a 50% improvement), processing 1.3 Million+ records daily.
  - TechStack:** Java, SpringBoot, SpringWeb, Microservices, AWS, Kubernetes
-  **Hoppscotch India Pvt. Ltd.** [\[URL\]](#) Remote  
*Software Developer (Internship)* March 2021 - June 2021
  - Mock-Server:** Integration to streamline API testing, enabling developers to simulate responses and reducing debugging time by 40%.
  - handling 100,000+ API requests per month:** by developing 4 customizable endpoints (GET, POST, PUT, DELETE), allowing users to create mock routes and serve predefined JSON responses
  - impacting a 200,000+ active user base:** improving API testing efficiency by 30% , reducing backend load by 20%.
  - TechStack:** ReactJS, SpringBoot, PostgreSQL, AWS, GraphQL
-  **Turingo(Now Ootsuk.com)** [\[URL\]](#) Remote  
*Machine Learning Intern (Internship)* December 2019 - March 2020
  - Project responsibilities:** Engineered an automated question generator using BERT transformer models and Python
  - Impact:** achieved 95% accuracy in question relevance as scored by subject matter experts, reduced manual workload by 40%.
  - TechStack:** NLTK, Spacy, NumPy, Pandas




## TECHNICAL PUBLICATIONS

- Generalized Agent for Solving Higher Board States of Tic Tac Toe Using RL in IEEE PDGC-2022 [\[URL\]](#)
- 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** [\[URL\]](#): A MERN stack based online Password Management Portal
  - Used JSON Web Tokens for Authentication, Two-Factor Authentication by consuming Vonage message sending API
  - Drafting UI Test cases and User stories. Link here User Edge cases Doc
  - Database CRUD operations along with Password Sharing amongst users via username
-  **Poll Taker App** [\[URL\]](#): Online Poll taker App build upon MERN stack
  - Users can create and vote on polls created by others. Analyse the results of the polls using Pie-Charts(ChartJS)
  - Modular Design, Redux for state management and seamless user experience
-  **Tic-Tac-Toe Min-Max** [\[URL\]](#): Research on Generalized Agent for Solving Higher Board States using Reinforcement Learning
  - A Graphical project to Analyze the time taken between making moves by AI utilizing the Min-Max Algorithm
  - Analyzed Min-Max further improved with  $\alpha - \beta$  pruning

## 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

## VOLUNTEER EXPERIENCE

-  **Gold Microsoft Learn Student Ambassador** [\[URL\]](#)  
*Conducted online and offline technical & soft-skills training impacting over 3000 students.* Sept 2019 - July 2022
-  **Numpy Open-Source Contributor** [\[URL\]](#)  
*Authored 5+ Gitpod 'How-To' guides that cut support inquiries by 15% and onboarded 100+ users*