

# Bhanu Gupta

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## EDUCATION

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- **New York University** New York, NY  
*Master of Science in Computer Engineering; GPA: 3.72* *Aug. 2022 – May. 2024*
- **SRM Institute of Science and Technology** Chennai, India  
*Bachelor of Technology in Computer Science and Engineering; GPA: 3.60 (8.75/10.0)* *Aug. 2018 – May. 2022*

## TECHNICAL SKILLS

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- **Languages:** Python, Java, C, C++, Javascript, Go, R
- **Technologies:** REST, GraphQL, Spring, Django, React, Jenkins, NodeJS, Docker, Kubernetes, AWS

## EXPERIENCE

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- **Flipped.ai** Chennai, India  
*Software Development Engineer - Intern* *Sept. 2021 - June 2022*
  - **Web Applications:** Designed and developed a candidate hiring application with Django, React, and JavaScript ensuring all compliance, achieving a 50% reduction in manual workload.
  - **Debugging & Testing:** Mitigated 20+ critical bugs on Django-React application. Introduced rigorous unit testing protocols for each issue resolved to prevent future recurrences.
  - **API Development:** Engineered and maintained a robust portfolio of 100+ GraphQL NodeJS APIs for seamless data retrieval from AWS RDS database, to support over 15,000 users.
  - **Analytics Dashboard:** Created a rules engine in JavaScript (NodeJS) for identifying heuristic based performance regressions; integrated with web application and developed a dashboard for displaying analytics.
  - **Process Automation:** Optimized the Continuous Integration and Deployment (CI/CD) pipeline by leveraging Jenkins and Github Actions, resulting in a 30% reduction in build time, enhancing development efficiency and deployment speed
  - **Notifications:** Built service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal tool to run batch campaigns for marketing.
- **Make A Difference** Bangalore, India  
*Software Development Engineer - Intern* *May 2021 - Aug 2021*
  - **Bug Tracking:** Led the development of a MongoDB schema, integrated Redis caching, and implemented end-to-end features in JavaScript (ES6) for bug management. Achieved a 70% reduction in developer workload.
  - **Volunteer Management System:** Developed optimal RESTful web-service using micro service architecture, React (Typescript) and Redux Tool Kit to analyze and present over 100 individual data points for 3,000+ users. Implemented data visualization components, increasing user interaction by 72% across the platform
  - **Testing:** Implemented automated testing suites using Jest and Cypress, resulting in a 40% reduction in bug reports and significantly improving code quality (92% code coverage).

## PROJECTS

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- **Genie - Generative AI Web Chatbot:** AWS-based Generative AI chatbot using OpenAI's API, which can provide my detailed personal information upon user request through natural language conversation.
- **FotoFind - Smart Photo Album:** Enables users to search their photo collection using natural language. The application uses Lex, ElasticSearch, and Rekognition to establish an intelligent search system.
- **NotePad.io - Secured Notes:** SHA256 encrypted note taking application in using Java Swing and core Java OOPS concepts.
- **Tick Tac Toe - Go:** A CLI game of Tick Tac Toe written in golang.

## ACCOMPLISHMENTS AND AFFILIATIONS

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- Teaching Assistant for Operating Systems for Prof. Kamen Yotov
- Merit Scholarship, NYU Tandon School of Engineering