

Ishan Garg

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EDUCATION

STEVENS INSTITUTE OF TECHNOLOGY, Hoboken, NJ, USA

Sep 2023 – Present

MS in Software Engineering | **Current GPA: 3.963/4.0**

Relevant Coursework: Agile Methods in Software Engineer, Natural Language Processing, Applied Algorithms, Data Mining

NIIT University, Rajasthan, India

Aug 2012 – Jul 2016

Bachelor of Technology in Computer Science

SKILLS

Programming Languages: Python, JavaScript, TypeScript, C++, Java, Golang, HTML, CSS

Domains: Full Stack Development, DevOps, Natural Language Processing, Data Analytics

Frameworks: Django, Flask, FastAPI, React, Node.js, PyTorch, TensorFlow, Numpy, Pandas

Templating Engines: EJS, Handlebars, Jinja2

Database Systems: MySQL, PostgreSQL, MongoDB, InfluxDB, Google Cloud Datastore

Testing: PyUnit, JUnit, Jest, Mocha, Chai, Jenkins

CI/CD: CircleCI, GitHub Actions, Docker, Jenkins, Gitlab

Cloud & Data Service: Google Cloud (GCP), AWS, Microsoft Azure, Elasticsearch, Apache Kafka

Project Management: Jira, Notion, Slack, GitHub, Bitbucket

Package Management: NPM, PIP, Yarn

PROFESSIONAL EXPERIENCE

Stevens Institute of Technology | Hoboken, NJ

Apr 2024 – Present

Platform Engineer – Frontend Developer

- Engineered a highly responsive Academic Calendar platform using ReactJS, and Typescript; ensuring zero discrepancies in time zones while managing over 100,000 monthly page views with an average response rate of 23 ms
- Designed and developed reusable "Call To Action" components replacing the existing components, reducing future maintenance time by 15%
- Automated CI/CD pipeline by integrating Jest with Vercel, resulting in a 25% decrease in testing time and 45% increase in process efficiency and a significant reduction in errors

NeoFi (Cryptocurrency Exchange) | Bangalore, IN

Mar 2020 - Aug 2023

Senior Software Engineer, Core Service

- Led NeoFi's core system from a monolithic to microservice architecture using Python, Django Rest Framework, PostgreSQL, Apache Kafka, Docker, and Kubernetes, resulting in increased scalability capable of handling up to 300,000 transactions per second (TPS) on Linux clusters
- Designed and implemented digital wallet's complete solution, including frontend and backend, using Python, PostgreSQL, ReactJS, Typescript, and Tailwind; integrated payment platforms like Stripe, Razorpay, and Cashfree, reducing customer churn by moneyback by 80%
- Designed and built an internal spend management tool to help top management get an overview of team spending, and reimbursements saving the company \$5,000+ in annual tools spending
- Built and deployed crypto trading API using GraphQL with Graphene and FastAPI, enabling users to create custom trading bots on the platform and supporting over 10,000 automated transactions per second
- Improved and deployed CI/CD pipeline using Pytest-Django and CircleCI, configuring the platform development environment for rapid deployment cycles by 200%

OKX (Cryptocurrency Exchange) | Bangalore, IN

Jan 2019 - Mar 2020

Growth, Business Technology

- Supervised growth strategy for the India region, achieving a 45% quarterly growth rate for business-critical operations
- Built and managed relationships with influencers to drive promotional campaigns, decreasing user churn by 30%

Blockmanity (Media Startup) | Bangalore, IN

Jan 2018 - Dec 2018

Founder

- Drove and executed the migration from shared hosting to AWS EC2 for website written in PHP to improve system scalability and performance by 75%
- Architected and built a high-performance content aggregator using Python and MySQL to crawl, process, and store media RSS feeds, scaling the platform to support over 1 million monthly page views
- Created Stripe and PayPal integrations for seamless checkout, improving processing speed by 2 times

Fractal AI (Formerly Senseforth) | Bangalore, IN

Sept 2016 - Jan 2018

Natural Language Researcher/Engineer, Product & Engineering

- Created robust APIs for chatbot workflows, such as prompting users for additional information and managing interactive conversations, using Java and Spring Boot
- Boosted SQL query response speed by 60% for HDFC Bank's chatbot by integrating Apache Lucene and Elasticsearch for efficient data retrieval
- Developed and deployed an NLP rule based email classification engine that optimized customer support workflows, leveraging GCP and GATE (General Architecture for Text Engineering) for advanced language processing

PROJECTS

Ramp for Google Workspace ([Demo](#))

Developed a Google Workspace Add-On for Ramp in a team of two using NodeJS, Cloud Datastore, Google Sheets API and Google Cloud, that provides admins and owners of Ramp account access to a consolidated view of their spend, cards, and users directly from inside of Google Sheets without having to login and download the CSV from Ramp.

Via Health ([Source](#))

Developed an open-source healthcare application enabling users to self-diagnose symptoms through speech-to-text input, leveraging large language models (GPT-4o and Gemini) for improved accuracy and user engagement across 3 distinct health categories

Order Matching Engine ([Source](#))

Implemented an open-source Order Matching Engine that applications requiring order matching, such as cryptocurrency exchanges, prediction markets, and binary options, can use as a backend engine

ACTIVITIES

- Leadership Role: Student Advisor to the Dean from August 2023 - May 2024 at Stevens Institute of Technology
- Leadership Role: Vice President of Graduate Coding Club at Stevens Institute of Technology
- Skilled Piano player, white belt at Brazilian Jiu-Jitsu
- Other Interests: Boxing, Basketball, Community Service, Poetry, Traveling