

Rohan Yogesh Deshpande

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Education

RUTGERS UNIVERSITY

Bachelor of Science, Major in Computer Science, Minor in Mathematics

GPA: 3.7 / 4.0

Awards: Dean's List, and Alan Marc Schreiber Memorial Scholarship for Excellence in Mathematics.

Relevant Coursework: Operating System Design (Graduate Level), Computer Security, Design and Analysis of Algorithms, Systems Programming, Software Methodologies, Data Structures and Algorithms, Linear Algebra, Scientific and Technical Writing.

New Brunswick, NJ

Expected: May 2024

Skills

Languages: Python, C, Java, Clojure, HTML/CSS, Typescript/Javascript

Spoken Languages: English (Native), Hindi (Native), Marathi (Native), Japanese (Proficient)

Technologies: Git, Docker, Kubernetes, KEDA, REST API, gRPC, Operating System Design, Redis, Node.js, React.js, Django, Flask, Protocol Buffers, Azure Cloud, AWS Technologies, Microservices, PostgreSQL, MySQL, MongoDB

Work Authorization: India, Japan, United States of America

Experience (3 Years of Total Experience)

KPMG IGNITION TOKYO (KPMG JAPAN)

Tokyo, Japan

Software Engineer

May 2022 - August 2023

- Led development of an in-house **file comparison software (Python, Django)**, reducing false positives by **48%** and accelerating processing by **60%** compared to Adobe PDF comparison methods.
- Improved major company application performance by **30-50%** by deploying caching microservice and enabling **Kubernetes** container autoscaling with **KEDA**.
- Enhanced financial reporting accuracy by developing a **patented** algorithm that improved data analysis from PDFs.
- Accelerated deployment timelines by implementing **Software Composition Analysis** practices to streamline security bug resolution.
- Developed a **property-based testing framework** in **Clojure** for assessing **REST APIs** across varying firewall conditions.
- Led and organized a series of company-wide knowledge-sharing sessions, which collected more than **⅔ of employees** and contributed largely to context sharing and transparency across each division.
- Technologies:** Django, Python, Clojure, Automated Testing, Kubernetes, KEDA, Distributed Systems, Docker, Microservices

RUTGERS UNIVERSITY, DEPARTMENT OF GENETICS

New Jersey, USA

Research Assistant

May 2021 - May 2022

- Led the development of a software platform using **Python, OpenCV, and Arduino** enabling Neuroscientists to conduct **Optogenetics** experiments while seamlessly recording **real-time** video and experiment data.
- Technologies:** Python, OpenCV, Arduino, Statistical Data Analysis

WHIZ.AI

New Jersey, USA

Software Engineer Intern

November 2021 - January 2022

- Developed efficient back-end functionality to support **large language models** using **Python, and Flask** resulting in a **30% decrease** in API latency.
- Increased the efficiency of engineers by integrating and documenting **Alembic** for easier database schema migrations.
- Technologies:** Python, Databases, Flask, REST APIs, Language Models, Microservices

HEALCO INC.

New Jersey, USA

Fullstack Engineer Intern

May 2020 - February 2021

- Architected, developed, and deployed HealCo's press release web app with robust identity access management, press sharing functionality, and administrative features.
- Built a production-grade, scalable, and cost-effective **AWS-based DevOps** system and CI/CD pipeline for all HealCo apps.
- Integrated **Stripe** into the web application to enable payments by ACH debits and credit cards.
- Technologies:** AWS, Node.js, Next.js, React.js, Typescript, Javascript, MySQL, PostgreSQL, Docker, Microservices

Featured Projects

GOOD EATS - Full-Stack Nutrition App:

- Developed a web application using **React** and **Node.js** for users to obtain nutritional information from images of food.

OS COMPONENTS - Threading Library, Virtual Memory, File System:

- Developed custom C libraries to recreate **POSIX** threads in user space, virtual memory, and **FUSE-based** file system.

IFEVAL - Large Language Model (LLM) Response Evaluation Framework:

- Developed a **Clojure** library to evaluate responses from LLM, based on the work of **Google** and **Yale University**.