

# Parva Shah

Portfolio: [parva-shah.vercel.app/](#)

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## EDUCATION

- Rochester Institute of Technology** Rochester, NY, USA  
• *Master of Science in Software Engineering* Present  
*Relevant Courses:* Software Architecture, Software Construction, Database Design, Data Analytics, Collaborative Software Development, Software Quality Assurance, Visual Analytics

## SKILLS SUMMARY

- **Languages** Python, C, C++, JavaScript, Java, HTML, CSS, PHP, PL/SQL, GoLang
- **Frameworks** NodeJS, ReactJs, Django, ExpressJs, Flask, Oracle Apex, Shopify, Kafka
- **Libraries** Tensorflow, Sci-Kit Learn, PyTorch, JaCoCo, pytest-cov, SeaBorn, Kafka Go client
- **Tools** Docker, PostgreSQL, MongoDB, Amazon DynamoDB, AWS, CI/CD, Tableau, MS Access

## EXPERIENCE

- Rochester Institute of Technology** Rochester, NY  
• *Graduate Researcher* 01/2024 – Present
  - **Data-Gathering Throughput** Boosted throughput by 70% by scripting Python automation to replace manual collection steps.
  - **Malicious App Detection** Identified over 6,000 malicious WeChat applications by reverse-engineering and analyzing their source code.
  - **API Data Flow Visibility** Enabled full visibility into data flows by developing and tracing custom **POST/GET** API requests to inspect endpoints and edge cases.
- Zenture IT** Pune, India  
• *Software Developer* 02/2023 – 05/2023
  - **Frontend Performance** Reduced performance time by half by refactoring legacy UI and migrating the codebase to **React**.
  - **Batch Processing Efficiency** Slashed batch processing time by 33.3% through the design and implementation of a thread-pooling architecture.
  - **Customer Engagement** Raised customer engagement by on boarding 500+ customers by designing and delivering interactive, web-based proof-of-concept solutions.
- Concordia University** Montreal, Canada  
• *Researcher* 05/2022 – 08/2022
  - **ULP Algorithm Accuracy** Improved model accuracy by redesigning the ULP algorithm with **TensorFlow** and deep learning techniques and boosting the accuracy by 25%.
  - **Data Accuracy & Speed** Increased data accuracy and reduced processing time by 40% by architecting a Django UI for log-file parsing.
  - **Algorithm Efficiency** Boosted algorithm efficiency by 66.6% through exhaustive log-file testing using **scikit-learn**.

## PROJECTS

- **Real-time Kafka Data Pipeline:** Built a robust scalable real-time messaging pipeline using **GoLang, Kafka, and Docker Compose**, ensuring structured JSON data streaming and efficient inter-service communication, significantly improving data processing reliability
- **Club Management App:** Architected a full-stack Nightclub Management solution, **leading a 4-person team** to integrate **SQL, Flask, Python, and React**. Implemented CI/CD Pipeline to ensure the flow of development.
- **Rideshare App:** Engineered a rideshare platform using **Django, and PostgreSQL** incorporating geolocation APIs using **NodeJS**. Sketched the API calls between the client/server using **Flask**
- **Appli-Tracker** Spearheaded a team of 5 in developing a Application-Tracking software for Students. Wrote 15 test suites using **Jest** for various user-stories achieving a code-coverage of 97%. Licensed by **Apache** and passed **Sonar Cloud** implying 100% system stability.
- **Task Management API** Engineered a task management API leveraging **JavaScript, NodeJS and ExpressJS**, allowing CRUD operations and securely storing data in **MongoDB**. Crafted API Calls to achieve 100% robustness and successfully deployed on **Heroku**.

## CERTIFICATIONS

- Mitacs Globalink Intern - Mitacs
- Neural Networks and Deep Learning - DeepLearning.ai
- Specialization in Python - University of Michigan

## ABOUT

I'm a Graduate Student currently enrolled in a **STEM Major** with a knack for Coding and Problem Solving for fun. I can work and code for hours if I'm able to see the results in real life. I've created various Applications and Software while learning and so far I've done it for fun and Learning. If, I'm not suitable for the job because of not equipped with the technologies involved. I can commit myself to upskill and gain the necessary learning in a very short amount of time.