# Rishita Gundimeda

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## Education

**Masters in Computer Science (CGPA: 3.8/4.0)**          **Aug 2023 - Present**
Georgia State University
**Bachelor of Technology, Computer Science (CGPA: 3.2/4.0)**          **Aug 2019 - May 2023**
PVP Siddhartha Institute of Technology

## Technical Competencies

**Languages and Methodologies** : Java, Python, C, C++, HTML, CSS, CI/CD, React.js, Agile.
**Tools**: Eclipse, Jupyter, Visual Studio Code, Figma, Git, Azure Synapse, Jenkins, Azure Monitor, Prometheus, Grafana.
**Databases**: MySQL, PostgreSQL, Firebase Realtime Database, MongoDB, Redis.

## Professional Experience

**Full Stack Developer**          **Atlanta,GA**
**Georgia State University - Graduate Research Assistant**          **Aug 2023 - Present**
- Designed and developed a fully responsive and dynamic course registration platform using **React.js** for the frontend and **Django REST Framework** for the backend, significantly improving enrollment efficiency and reducing manual intervention.
- Built secure RESTful APIs with **JWT** and **RBAC** for protected course access and enrollment.
- Implemented real-time course availability tracking and waitlist updates using **React Query**, long polling, and optimized **Django** endpoints, improving system responsiveness and reducing registration delays by 40% during peak enrollment periods.
- Built client-side filtering, server-side pagination, and advanced search with **Redux Toolkit** and **React Query**, reducing page load times by 35% and improving responsiveness for large datasets.
- Applied robust validation across the full stack using **React Hook Form** and **Yup** on the client side and **Django Forms** on the server side, ensuring consistent real-time feedback and minimizing user submission errors.
- Improved database performance by analyzing slow queries, creating indexes on frequently accessed fields, and leveraging **pgAdmin** and **Django Debug Toolbar** to identify and fix bottlenecks, resulting in faster query response times.
- Achieved and maintained over 95% test coverage using **Jest** and **React Testing Library** for frontend unit and integration tests, along with **Pytest** and **Coverage.py** for backend testing, ensuring reliability across all modules.
- Collaborated in Agile sprints using **Jira** and **GitHub Projects**, conducted code reviews, and automated testing and deployment workflows with **GitHub Actions** for continuous integration and rapid feature delivery.

**Software Developer Intern**          **Hyderabad, INDIA**
**Soulpage IT Solutions**          **Aug 2022 - April 2023**
- Developed a SaaS-based project management platform using **Python** for backend services and **React.js** with **React Context API** for state management, ensuring a seamless and responsive experience across devices.
- Designed and optimized **RESTful APIs** using **Flask** and **FastAPI**, supporting full CRUD operations and integrating with both **PostgreSQL** and **MongoDB** for efficient handling of structured and semi-structured data.
- Integrated third-party services such as **Stripe** for secure payments, **Firebase** for authentication and real-time updates, and **Twilio** for SMS-based notifications, expanding the platform's core functionality.
- Achieved over 92% test coverage by writing unit and integration tests with **PyTest** for backend logic and **Cypress** for end-to-end testing, ensuring high system reliability and consistent user experience.

### Projects

**Automated Driver Drowsiness Detection System**
- Achieved **95.2%** accuracy in real-time driver drowsiness detection by issuing timely alerts to prevent accidents.
- **Enhanced detection robustness** by **training the model on diverse datasets** with features like yawning and eye behavior.
- **Processed live video frames** using OpenCV and dlib, ensuring accurate facial landmark detection in real-world scenarios.
- **Utilized Modified SVM, Decision Tree, and Logistic Regression** to develop a comprehensive and reliable detection system, ensuring high accuracy and adaptability across diverse environments and datasets.

**Welth − AI Finance Platform**
- Developed a full-stack AI finance platform using **Next.js**, **React.js**, **Tailwind CSS**, and **Shadcn UI**, providing a responsive and consistent interface across devices.
- Configured **Supabase** and **Prisma ORM** with PostgreSQL for real-time auth, syncing, and type-safe data handling.
- Automated expense tracking by integrating **Gemini AI** to scan uploaded receipts and extract financial data, and used **Inngest** to log transactions and generate monthly reports asynchronously.
- Delivered personalized financial recommendations and real-time insights by integrating **ArcJet**, enhancing user engagement and decision-making through AI-powered analytics.

## Certifications and Publications

- AWS Certified Cloud Practitioner, Microsoft Certified: Azure Developer Associate, Google Cloud Certified: Professional Cloud Architect, IEEE Publication: Automated Driver Drowsiness Detection using Computer Vision and Machine Learning.