

# RAHUL PAUL

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## Education

University of Texas at San Antonio

Aug 2022 – May 2026

Bachelor of Science in Computer Science

Overall GPA: 3.67

## Technical Skills

**Programming Languages:** Java, C, Python, PHP, JavaScript HTML, CSS, Kotlin, Shell

**Frameworks & Libraries:** Next.js, React.js, Node.js, Django, REST APIs

**Cloud & DevOps:** AWS (Lambda, EC2, S3, Step Functions, API Gateway), Terraform, GitLab, Docker, Kubernetes

**Databases & Tools:** MySQL, SQL Server, NoSQL, phpMyAdmin, Postman, Copilot, Agile, CI/CD, JIRA, Linux

**Concepts:** System Design, Project Management, Version Control, Object Oriented Programming

## Experience

USAA Inc

May 2025 - Aug 2025

Software Engineer Intern

San Antonio, TX

- Automated the sensitive data scanning process by developing a **serverless process flow** using **Terraform** and **AWS Lambda**, which reduced manual task tracking drastically and streamlined **S3** to on-premises data transfers for data mart integration.
- Improved deployment efficiency by leveraging **GitLab CI/CD pipelines**, ensuring rapid and reliable updates to cloud resources in a collaborative **Agile environment**.
- Contributed to a cross-functional team using **Agile** and **JIRA** to deliver a production-ready solution that eliminated manual task tracking and reduced processing time significantly.

AT&T Inc.

Jun 2025 – Jul 2025

Software Engineering Extern

Remote

- Acquired proficiency in Agile frameworks (**Scrum, Jira, Kanban, Scrumban, XP**), applying adaptability to enhance collaboration, streamline project management, and optimize software development.
- Acquired and applied modern technologies including **RESTful APIs, Web Services, Cloud Computing, IaaS, PaaS, and SaaS** gaining hands-on experience in their implementation and practical use within AT&T's ecosystem.

The Data Mine, Purdue University

Aug 2025 – Present

Teaching Assistant

West Lafayette, IN

- Leading a national team of undergraduate researchers to design and deploy an NVIDIA GPU-optimized image recognition system, achieving accurate license plate detection (**approximately 3,000 vehicles/hour/lane**) across diverse lighting and weather conditions.
- Enforced an **agile workflow** and streamlined communication with corporate partners, ensuring secure, privacy-compliant software development and improving project efficiency and collaboration.

## Projects

Bird-Bot | AWS (ECS, DynamoDB, Lambda, IAM, API Gateway), Terraform, Next.js, Python, OpenAI API, GitHub

- Developed an **AI tutor** for UTSA CS students by **fine-tuning GPT models** on textbooks and assignments, enhancing student learning outcomes by promoting guidance over direct answers.
- Ensured **100% uptime** and **scalability** by deploying the tutor with **AWS ECS Fargate, API Gateway**, and **DynamoDB**, improving reliability and accessibility for all users.
- Built an interactive and responsive frontend with **Next.js**, increasing student engagement and usability of the chatbot platform by **30%**.

WADE | Python, Django, RESTful API, JSON, GitHub

- Led a team using Agile Scrum to develop a **Django/Python RESTful API** for **V2X's aviation-manual chatbot**, that blocks malicious code/SQL injections before reaching the LLM.
- Ensured secure, reliable chatbot responses by implementing **JSON-based** frontend-backend transfer, detecting **100%** of unsafe inputs and tagging offenders.

## Leadership / Extracurricular

The Association for Computing Machinery(ACM) at UTSA

May 2025 – Present

Co-director of CodeQuantum

San Antonio, TX

- Expanded organizer team diversity by **30%+** by recruiting and **mentoring** first-time leaders from marginalized genders, strengthening event inclusivity.
- Boosted social media engagement by **50%** by implementing incentive campaigns (e.g., giveaways), increasing visibility among beginner coders.