

CHARLES JOSEPH REYES GATCHALIAN

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Education

University of Houston Bachelor of Science in Computer Science GPA: 3.5	August 2023 – May 2027 Houston, TX
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Skills

Languages: Python, C++, SQL

Tools: Git, Docker, Linux, Azure DevOps, CI/CD pipelines

Certifications: CompTIA Security+, Google IT Support

Relevant Coursework: Operating Systems, Data Structures & Algorithms, Cisco Network Engineering I

Experience

Software Engineering Co-Op NASA (via LZ Technology, Inc.)	January 2026 – Present Houston, TX
<ul style="list-style-type: none">Develop C++ module to deploy Samba as a lightweight Linux domain controller for 50+ on-flight systems, reducing RAM and storage usage by over 70%Automate 100+ Linux system roles and permissions across VMs through custom C++ code, ensuring secure authentication and compliance for flight systemsCollaborate in Agile-style weekly team meetings to plan, review, and coordinate software deployment tasks for mission-critical systems	

Undergraduate Researcher University of Houston (Faculty-Mentored Research)	January 2026 – Present Houston, TX
<ul style="list-style-type: none">Contributing to faculty-mentored research using Qwen-Agent and LLM-based AI agent workflows for educational applications, focusing on memory, planning, and function-calling capabilities.Assisting in the design and implementation of AI agent tasks for automated evaluation of student coding performance, leveraging error detection and contextual reasoning for code quality feedback.Investigating multi-step reasoning and instruction-following mechanisms to improve reliability of agent responses and reduce hallucinations.	

Software Engineering Intern Limbaga Law	May 2025 – August 2025 Houston, TX
<ul style="list-style-type: none">Rebuilt client website in TypeScript with streamlined navigation, lowering support requests by 30%Secured contact form with input validation and honeypot filtering, successfully blocking 99% of spam submissionsAutomated client email notifications with Python, saving the team 5 hours per week on manual follow-ups	

Projects

CI/CD Pipeline	
<ul style="list-style-type: none">Built a functional CI/CD pipeline using Azure DevOps to automate the build and deployment process for a sample applicationIntegrated SAST and dependency scanning, identifying critical vulnerabilities before deploymentConfigured workflow with audit logs and rollback triggers, streamlining releases and ensuring compliance with security best practices	

Campus Crowd Reporting	
<ul style="list-style-type: none">Collaborated on a React Native mobile web app tracking crowds for 20+ study halls, improving real-time campus monitoringDesigned RESTful APIs tested to handle 50 requests/min, ensuring reliable and consistent crowd updates for usersContainerized backend services with Docker/Docker Compose, reducing developer onboarding time by 2 hours through standardized setup and documentation	

Extracurriculars

CougarCS - Information Security Branch Workshop Officer	August 2023 – May 2025 University of Houston
<ul style="list-style-type: none">Led workshops on Wireshark and packet analysis, educating 30+ peers on core network fundamentalsCoordinated weekly CTF sessions, leading a team of 5 to achieve a top 18% national ranking for PicoCTF through strategic meetings	