Rey Christopher D. **Aparece**

Columbia University CS '23 · Software Engineer · Veteran

New York, NY · Houston, TX

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Education

Columbia University   *New York, NY*

B.A. in Computer Science, Software Systems Track   *Jul. 2020 - May. 2023*

- *Relevant Coursework*: Data Structures & Algorithms, Computer Organization & Architecture, Programming Languages & Translators, Distributed Systems, Operating Systems, Intro to Databases, Advanced Databases, Cloud Computing

Technical Skills

Programming Languages	C++, GoLang, Python, JavaScript, Swift
Cloud Platforms	AWS
Devops Tools	Docker, Git, GitHub
Web Development Frameworks	Flask, Express
Databases	PostgreSQL

Experience

Software Development Engineer

WEX Health   *Jul. 2023 - Aug. 2024*

- Developed high-performance iOS applications in Swift and Objective-C, enhancing user engagement by 15%.
- Enhanced CI/CD pipeline by improving unit test coverage by 35%, which reduced deployment errors significantly during critical releases.
- Streamlined development workflows via tools like Azure and Jenkins, cutting integration task times by 15% and boosting team collaboration.
- Coordinated back-end features to optimize app performance and security, ensuring efficient deployment through streamlined processes.

Software Engineer Intern

WEX Health   *Sep. 2022 - Jul. 2023*

- Developed a robust test automation suite using Python and Selenium, effectively reducing manual testing by 30% and improving release reliability.
- Created C# test scripts to identify and resolve API performance issues, facilitating smoother user experiences for the WEX Partner Analytics portal.
- Implemented automated performance tests with Python, ensuring stable deployment through comparative analysis between environments.
- Participated in Agile/SCRUM methodologies to accelerate product releases, collaborating effectively in a cross-functional team.

Base Expeditionary Targeting and Surveillance Systems Operator and Team Leader

United States Army   *Apr. 2014 - Apr. 2020*

- Led operations managing aerial targeting and surveillance systems, enhancing intelligence accuracy and operational efficiency on multiple deployments.
- Integrated advanced ISR software with existing systems, providing actionable intelligence through geospatial analysis and data integration.
- Automated surveillance processes using RAID system technology, augmenting real-time intelligence gathering while on field missions.
- Received Army Achievement Medal for distinguished service and technical innovation during critical operations, advocating teamwork and strategic success.

Projects

DNYF: Study Buddies

Microservices Developer   *2022*

- Collaborative development of a web application designed for study groups at Columbia University, enhancing peer learning.
- Implemented RESTful Microservices architecture utilizing Node.js, Express.js, Python, Vue, and MySQL for efficient data handling.
- Utilized Docker for smooth deployment of microservices to AWS EC2, enhancing scalability and reliability.

IoT-Based Smart Energy Management Tool

Individual Developer   *In active development*

- Engineered a real-time energy monitoring solution using Node.js, Python, and ESP microcontrollers for effective resource management.
- Analyzed energy consumption data to identify loss, applying troubleshooting skills relevant to operational improvements.
- Automated HVAC systems to optimize energy expenditure, resulting in a 55% reduction in utility costs, demonstrating efficiency.

QuackieChattie (Android and iOS)

Individual Developer   *2022-2023*

- Developed a cross-platform communication application for Android and iOS using Swift and Kotlin, improving user connectivity.
- Created a Node.js server with Express.js, deployed to Heroku to handle real-time messaging efficiently.
- Designed PostgreSQL database schema to manage data efficiently, aligning with Cloudflare's focus on data integrity and security.