

Jason Merchan

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EDUCATION

Rutgers University-New Brunswick Bachelor of Science in Computer Science Relevant Coursework: Data Structures, Algorithm Design, Computer Architecture, Data Management, Data Science, Systems Programming, Operating Systems, Computer Security, Numerical Analysis, Software Engineering	Expected May 2026 GPA: 3.8/4.0
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PROFESSIONAL EXPERIENCE

GitHub Software Engineering Intern	May 2025 – August 2025 Remote
<ul style="list-style-type: none">Developed pre-migration CLI tool in Go, addressing 9% of migration issues and facilitating customer migrationsBuilt Support Vector Machine model by analyzing cleaned Azure data, achieving 83% accuracy in time estimatesUsed GraphQL to add support for GitLab, Azure, and BitBucket migrations by fetching repo metadataEngineered unit and integration tests with CI/CD pipeline using GitHub Actions, automating binary releasesWrote team-reviewed high-level and low-level documents to improve development, maintainability, and future work	
Rutgers University Software Engineering Intern	March 2024 – Present New Brunswick, NJ

Urological Associates of Central Jersey June 2023 – August 2023

Software Engineering Intern Edison, NJ

- Cross-collaborated to develop the official myRutgers App for 70,000+ users using Flutter and Firebase
- Implemented app-wide navigation system, using URI routes, resulting in 14% performance improvement
- Redesigned authentication system, speeding up login by 4 times with proper state management and API usage
- Reworked components using JavaScript web-scraping and Firestore Database to deliver user-specific widgets

Urological Associates of Central Jersey June 2023 – August 2023

Software Engineering Intern Edison, NJ

- Developed clinic's official website using React.js, incorporating medical documents into user-friendly UI/UX
- Increased online visibility by 70% using SEO practices, providing a 38% average growth in per-page views
- Reduced patient phone inquiries by 25% through improved information accessibility, lowering clinic costs

PROJECTS

Layback Mobile App Flutter, Dart, Google Cloud	
<ul style="list-style-type: none">Developed and deployed iOS and Android app using Flutter and Firebase for beach reservation businessScaled platform to manage 1,000+ users across mobile and web app, focusing on performance and growthImproved user data security by integrating Google and Facebook login APIs, and Stripe payment APIConstructed inventory system, using state management, achieving real-time UI based on available supplyDesigned modular architecture with reusable widget components, reducing feature development time	
KnightMarket JavaScript, AWS, Node, React, Docker	
<ul style="list-style-type: none">Developed a marketplace and forum webapp for the Rutgers community, increasing student-to-student interactionsLed a team of 8 engineers using Agile practices to accomplish sprints efficiently and meet project deadlinesImplemented 10+ REST APIs for communication with serverless Lambda functions, reducing infrastructure costsIntegrated CI/CD using Docker, AWS SAM, and GitHub Actions, streamlining development and deployment	
Rutgers Rocket Propulsion Lab Python, C++, GitHub	
<ul style="list-style-type: none">Improved radio frequency transmission algorithm speed by 19%, providing better real-time data accuracyFacilitated cross-functional team meetings between telemetry and other subsystems, limiting integration issuesCreated an intuitive GUI using Godot with C++ and GDScript, enabling real-time data visualization	
Custom Shell C, Makefile, Git	
<ul style="list-style-type: none">Created Linux-based shell in C with piping, I/O redirection, and wildcard expansion for system interactionEnhanced reliability using error handling and Makefile testing, eliminating resource leaks in pipe operations	

TECHNICAL SKILLS

Frameworks/Libraries: Pandas, NumPy, Keras, React.js, Node.js, Express.js, Flutter
Languages: Go, Python, Java, C, C++, JavaScript, TypeScript, Dart, HTML/CSS, SQL
Developer Tools: Git, GitHub, Linux, AWS, Azure, Google Cloud, MySQL, Postman, Docker, Firebase, XCode
Other Skills: Machine Learning, REST API, Multithreaded Programming, Object-Oriented Programming, Agile