

Jason Merchan

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EDUCATION

Rutgers University-New Brunswick

Expected May 2026

Bachelor of Science in Computer Science

GPA: 3.8/4.0

Relevant Coursework: Data Structures, Algorithm Design, Computer Architecture, Data Management, Data Science, Systems Programming, Operating Systems, Computer Security, Numerical Analysis, Software Engineering

PROFESSIONAL EXPERIENCE

GitHub

May 2025 – August 2025

Software Engineering Intern

Remote

- Developed pre-migration CLI tool in Go, addressing 9% of migration issues and facilitating customer migrations
- Built Support Vector Machine model by analyzing cleaned Azure data, achieving 83% accuracy in time estimates
- Used GraphQL to add support for GitLab, Azure, and BitBucket migrations by fetching repo metadata
- Engineered unit and integration tests with CI/CD pipeline using GitHub Actions, automating binary releases
- Wrote team-reviewed high-level and low-level documents to improve development, maintainability, and future work

Rutgers University

March 2024 – Present

Software Engineering Intern

New Brunswick, 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

- Developed and deployed iOS and Android app using Flutter and Firebase for beach reservation business
- Scaled platform to manage 1,000+ users across mobile and web app, focusing on performance and growth
- Improved user data security by integrating Google and Facebook login APIs, and Stripe payment API
- Constructed inventory system, using state management, achieving real-time UI based on available supply
- Designed modular architecture with reusable widget components, reducing feature development time

KnightMarket | JavaScript, AWS, Node, React, Docker

- Developed a marketplace and forum webapp for the Rutgers community, increasing student-to-student interactions
- Led a team of 8 engineers using Agile practices to accomplish sprints efficiently and meet project deadlines
- Implemented 10+ REST APIs for communication with serverless Lambda functions, reducing infrastructure costs
- Integrated CI/CD using Docker, AWS SAM, and GitHub Actions, streamlining development and deployment

Rutgers Rocket Propulsion Lab | Python, C++, GitHub

- Improved radio frequency transmission algorithm speed by 19%, providing better real-time data accuracy
- Facilitated cross-functional team meetings between telemetry and other subsystems, limiting integration issues
- Created an intuitive GUI using Godot with C++ and GDScript, enabling real-time data visualization

Custom Shell | C, Makefile, Git

- Created Linux-based shell in C with piping, I/O redirection, and wildcard expansion for system interaction
- Enhanced 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