# SREEKAR PALLA

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## Education

**Rutgers University – New Brunswick** Graduating May 2027
*Bachelor of Science, Computer Science* *New Brunswick, NJ*
- Involvement: BITS, AIAA, Mobile Application Development

## Experience

**Schneider Electric** May 2025 - Present
*Software Engineering Intern* *Andover, MA*
- Improved CI/CD reliability by developing a Docker & Bash test framework for shell scripts, automating pre-merge validation and reducing manual regression testing
- Strengthened embedded product security by upgrading critical system components, enforcing authentication policies, and eliminating credential exposure across internal tooling
- Resolved 50+ cross-stack issues, strengthening security, maintainability, and user experience through careful debugging and system improvements
- Improved release quality by implementing build-time validation checks and analyzing image-size regressions across product versions
- Maintained embedded device lab infrastructure, configured network test environments, and documented hardware integration APIs

**CREST Technologies** March 2023 - August 2024
*Deployment Technician* *Boylston, MA*
- Processed 1000+ device deployments daily by imaging operating systems, installing application stacks, and running validation checks before client handoff
- Standardized provisioning across high-volume batches by maintaining consistent OS builds, firmware versions, and software configurations
- Reduced configuration drift by documenting deployment run-books and QA checklists for production consistency
- Operated laser engraving equipment for client branding and coordinated hardware staging and logistics for live-event deployments

## Skills

**Languages:** Python, Java, Swift, C, TypeScript, JavaScript, HTML/CSS, Bash
**Developer Tools:** Git, GitHub, Claude Code, GitHub Copilot, IntelliJ, Xcode, Docker, Jira, Confluence
**Infrastructure:** AWS, Linux, Jenkins, WireGaurd
**Frameworks:** NodeJS, Flask, SwiftUI, AngularJS, JavaFX, Scikit-learn, Yocto
**Libraries:** NumPy, Pandas, OpenCV, SQLite, PostgreSQL

## Projects

**Personal Homelab** Linux, Docker, Docker Compose, Networking
- Built a self-hosted home server on repurposed hardware running 15+ containerized services
- Designed a security-first architecture with identity-gated remote access and hardware-backed MFA
- Configured segmented container networks and DNS-level filtering to isolate workloads
- Implemented uptime monitoring and alerting to catch failures before they cause outages

**Discord Music Bot** Python, yt-dlp, ffmpeg, SQLite, Docker, Flask
- Build an event-driven Discord music bot handling voice connections and playback utilizing asynchronous Python
- Integrated YouTube and SoundCloud track resolution via yt-dlp with ffmpeg based audio transcoding
- Developed a web dashboard with 25+ REST API endpoints for remote play control and system monitoring
- Persisted per-guild queues and history in SQLite so playback state survives service restarts

**Portfolio Tracker** Java, Python, JavaFX. Maven, SQL, NumPy, XML, CSS
- Built a desktop application with real-time stock data, portfolio monitoring, automated alerts, and summaries
- Integrated Yahoo Finance, Morningstar, and AlphaVantage APIs to fetch comprehensive ticker data
- Leveraged JavaFX and Python libraries to create interactive data visualizations for performance analytics
- Developed a natural-language chatbot with 25+ intents for quick queries and information

**Dorm Security** Python, Flask, Swift, HTML/CSS, JavaScript, OpenCV
- Built web and iOS applications to control and monitor a dorm room security system
- Implemented a Flask-based server for backend logic and REST API endpoints
- Engineered core functionalities including motion detection, face recognition, and audio monitoring
- Integrated live video streaming and remote system control features into both clients

**Restaurant App** Python, Flask, JavaScript, HTML/CSS, Swift, SQLite, Pandas, NumPy
- Architected a full-stack solution sharing a single REST backend across a web dashboard and an iOS application
- Designed and deployed an API using Flask to handle backend logic and data processing
- Developed a web dashboard using HTML, CSS, and JavaScript for order tracking and analytics
- Utilized SQLite for efficient data storage and retrieval, optimizing query performance for operations