

Pranav Komarla

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EDUCATION

Rutgers University, New Brunswick

NJ

Bachelor of Science in Computer Science and Data Science

Aug. 2022 – May 2026

Relevant Courses: Data Structures (Java), Discrete Structures, Computer Architecture (C), Systems Programming (C), Design and Algorithms, Data Management for Data Science (Python, Numpy, Pandas, SQL), Data 101 (R, R Studio)
GPA: 3.9 out of 4

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, React, MySQL, SQL, Git, C, R

Frameworks/Developer Tools: Android Studio, Unity, Docker, Kubernetes, AWS(EC2)

Platforms: Salesforce Commerce Cloud

EXPERIENCE

Avis Budget Group - Software Engineer Intern

May 2024 – August 2024

React Native/Nodejs/Nestjs/Kubernetes/Concourse

- Worked on development of a customer application by collaborating with cross-functional teams to design and implement scalable BFF modules, enhancing the application's performance and user experience by around 13%.
- Participated in code reviews to ensure quality by incorporating tools like Bitbucket cloud and aided the SDLC process by gathering information, developing code, and making enhancements based on customer feedback
- Developed dynamic user interfaces using React/React Native, for compatibility across web and mobile platforms.
- Utilized NestJS to build maintainable backend services, providing robust API endpoints for frontend consumption.
- Implemented CI/CD Concourse pipelines, automating the build, test, and deployment processes to ensure rapid and reliable software delivery.
- Deployed/managed Kubernetes application containers, achieving high availability and scalability for the user base.

RafterOne - Salesforce Intern

July 2023 – August 2023

Salesforce Commerce Cloud/Apex

- Trained extensively on Commercial Cloud.
- Developed a fully functional storefront with foundational features like inventory management, easy application of pricing and discount to manage products leveraging the latest flows and apex coding as needed
- Developed reports and dashboards to support product management.

PROJECTS

LazyTrader | *Python, Flask, Machine Learning, AWS, Algorithmic Trading, React, Node, SQL*

- Designed, implemented, and deployed a sophisticated algorithmic trading bot in Python.
- Utilized advanced machine learning techniques such as mean reversion, regression, and classification to optimize trading strategies.
- Automated trading processes and ensured seamless operation through deployment on AWS EC2 Instance, leveraging cloud infrastructure for scalability and reliability.
- Achieved significant improvements in trade execution efficiency and profitability through continuous performance monitoring and backtesting of strategies
- Integrated Oanda, Finnhub and Polygon APIs for real-time stock information.
- Used MySQL for secure user information storage.
- Built REST APIs for efficient frontend-backend communication.

Linux Shell | *C*

- Designed and implemented a custom Linux shell, providing interactive and batch modes for executing and managing a sequence of shell commands
- Gained expertise in POSIX stream IO, directory management, and advanced process control
- Utilized system calls for implementing redirection and piping between processes, enhancing command functionality
- Developed features including wildcard pattern matching, input/output redirection, and conditional command execution, ensuring robust and efficient shell operations