

Avinash Paluri

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EDUCATION

Rutgers University - New Brunswick

New Brunswick, NJ

Bachelor of Science in Computer Science, Bachelor of Arts in Data Science

Sept. 2021 – Dec 2024

EXPERIENCE

Software Engineer Intern

May 2024 – Aug. 2024

Amazon Web Services

Seattle, WA

- Developed a website using React, JavaScript, and Cloudscape to enable customers to create and execute custom simulations for their AWS bills, significantly improving user experience and operational efficiency.
- Integrated RESTful APIs to connect UI components with the backend, leveraging AWS S3 for data storage and retrieval, and DynamoDB for managing simulation information, which streamlined data operations and enhanced overall functionality.
- Collaborated with customers and product managers to gather requirements, leading to a solution that met all user needs and significantly enhanced the usability of the simulation service.

Software Engineer Intern

June 2023 – Aug. 2023

Amazon Web Services

Seattle, WA

- Engineered a REST API using Java, Smithy, AWS Lambda, AWS API Gateway, AWS S3, and TypeScript, resulting in a 50% increase in bill computation and simulation efficiency.
- Developed a comprehensive Validation class that automated 85% of manual regression testing tasks, ensuring precision and significantly reducing project timelines.
- Implemented an extensible validator using Java and AWS, which reduced processing time by 60% while maintaining high-quality standards, contributing to a more agile and scalable development lifecycle.

PROJECTS

Minesweeper AI | *Python, PyTorch, Machine Learning*

Jan. 2024 – Apr. 2024

- Designed an AI bot for Minesweeper using deep learning techniques, achieving 95% accuracy in predicting mine locations and improving decision-making strategies.
- Implemented a convolutional neural network (CNN) using PyTorch, which successfully identified safe and mine-infested cells with high accuracy.
- Developed an optimized training pipeline using scikit-learn for preprocessing, TensorDataset for data handling, and Adam optimizer, resulting in 30% faster model convergence.

University Registration System | *Java, SQL, HTML, JavaScript, Maven, Git*

June 2022 – Aug. 2022

- Led the development of a University Registration System using Java, SQL, HTML, and JavaScript, which significantly streamlined the student enrollment process.
- Designed an intuitive front-end interface with JavaScript, greatly enhancing user experience and satisfaction among students.
- Engineered a robust back-end system in Java, leveraging MySQL for optimized database management, ensuring smooth and reliable enrollment operations.

Meal Planner App | *Swift, SwiftUI, Google Cloud, Git*

May 2023 – Oct. 2023

- Developed a Meal Planner App for iOS using Swift and SwiftUI, providing users with a seamless and intuitive meal planning experience.
- Integrated Google Firebase for real-time collaboration and data synchronization, ensuring data consistency and boosting user engagement.
- Designed a sleek and user-friendly interface, prioritizing a high-quality user experience and contributing to increased user retention and positive feedback.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, R, Go
Frameworks & Libraries: React, Node.js, Flask, JUnit, Spring Boot, Material-UI, SwiftUI, Bootstrap
Cloud & DevOps: AWS, Google Cloud Platform, Azure, Docker, Kubernetes, Jenkins, Terraform
Data & ML Tools: Pandas, NumPy, TensorFlow, Keras, PyTorch, scikit-learn, Matplotlib, Jupyter
Development Tools: Git, GitHub, GitLab, Bitbucket, IntelliJ, PyCharm, VS Code, Maven, Gradle