Saarth Chaturvedi

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EDUCATION

Purdue University   West Lafayette, IN
B.S. Computer Science, Concentration: Machine Intelligence, Minor: Finance   *Aug. 2021 – May 2025*

Coursework: Object-Oriented Programming, Programming in C, Data Structures and Algorithms, Computer Architecture, iOS Development, Systems Programming, Data Mining and Machine Learning, Introduction to Artificial Intelligence, Information Systems

Leadership: Beta Chi Theta (President, Vice President of Internal Affairs, Brotherhood Chair)

TECHNICAL SKILLS

Languages: Java, Python, C/C#, Swift, JavaScript, HTML/CSS, Basic knowledge in: SQL, R, YAML
Frameworks: Node.js, JUnit, Angular, .NET, React, MongoDB
Tools: Git, Linux, Docker, Azure, IntelliJ, Pycharm, Eclipse

WORK EXPERIENCE

Software Engineering Intern   May 2024 – August 2024
Collins Aerospace   *Cedar Rapids, IA*

- Collaborated with the Air Combat Test and Training Agile Team to develop mission-critical software for Navy & Air Force training exercises, enhancing mission planning, execution, and debrief processes by 30%
- Utilized Java for development, JUnit and Python for testing, and Bamboo and Docker for deployment on Linux workstations, reducing deployment time by 40%
- Gathered customer requirements and feedback, applying agile practices for incremental updates, resulting in a 25% improvement in software quality and training effectiveness

Software Engineering Intern   June 2023 – August 2023
AmerisourceBergen   *Remote*

- Developed an authentication API using .NET and C#, implementing JWT tokens and an encryption library to securely store tokens in Redis cache, increasing security by 35%
- Engineered a web app for a medicine dispensing system with Angular JS, RxJS, .NET, and C#, enabling seamless software/firmware updates, improving efficiency by 30% and reducing update time by 40%
- Executed testing and deployment of cloud-based solutions in Microsoft Azure, optimizing performance and reliability, contributing to a 20% reduction in operational costs

Software Engineering Intern   May 2022 – Aug. 2022
Sielox LLC.   *Runnemede, NJ*

- Created a CI/CD pipeline using shell scripting, YAML, and Python to automate code integration and deployment, streamlining the process of pulling new code changes, building them, and uploading to the cloud
- Partnered with cross-functional teams to understand existing build processes and requirements, ensuring seamless transition and minimal disruption during the migration to the new pipeline
- Decreased code build and deployment time by 25%

PROJECTS

OOTD | *React, Node.js, MongoDB, REST API*   January 2024 - May 2024

- Developed a dynamic web application using React for the front-end and Node.js for the back-end, enabling users to store and manage their favorite outfits in a virtual closet, with MongoDB for efficient and scalable data storage, resulting in a 25% increase in user engagement
- Collaborated on full-stack development, integrating React components with Node.js APIs to provide a seamless user experience for building and accessing virtual closets, enhancing user satisfaction by 30%

Picture This! | *Swift, Xcode, Firebase, Git*   January 2023 – May 2023

- Built a social media platform for users to draw and share daily drawings based on prompts, creating an engaging and creative community experience, resulting in a 40% increase in user activity
- Implemented features for adding friends, liking, commenting, and viewing drawings using Firebase, Pencilkit, and Alamofire, enhancing interaction and ensuring robust performance