DAX PATEL

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Education

The Pennsylvania State University   **Aug 2021 – May 2025**
Bachelor of Science in Computer Science: GPA 3.65   *University Park, PA*

Experience

Software Engineering Intern   **May 2023 – Present**
Information Systems Laboratories

- Refactored legacy Java code base to enhance maintainability and readability
- Developed Java desktop application that allowed the team to install software dependencies efficiently
- Deployed bash/shell scripts to automate code testing leading to a 15% reduction in code deployment time

Vice President iOS Engineering   **May 2023 – Present**
OnePass LLC

- Spearhead deployment of iOS app from design, development, and production
- Developed efficient database querying techniques to allow ads to be seamlessly integrated into the user's feed
- Managed a team of 2 developers, ensuring 100% on-time delivery of projects, bug fixes, and app updates

Technical Skills

Languages: Python, TypeScript, Java, HTML/CSS, JavaScript, Swift, SQL, C
Developer Tools: VS Code, Eclipse, PyCharm, CLion, XCode, Bash
Technologies/Frameworks: NextJS, Linux, React, NodeJS

Relevant Coursework

- Data Structures
- Algorithms
- Systems Programming
- Web Development
- Blockchain Development
- Java OOP Development
- Computer Design
- Statistics

Projects

Trello | *NextJS, TypeScript, Firebase, Tailwind CSS, Headless UI, OpenAI*

- Recreated popular task managing app Trello
- Implemented functionality like creating boards, adding lists and cards, drag-and-drop functionality, user authentication, and real-time updates
- Utilized typescript to help catch runtime errors during development, improving code quality and maintainability

Twitter | *React, JavaScript, Firebase, CSS*

- Developed a full-stack clone of the Twitter application
- Implemented functionality like authentication, posting and interacting with tweets, adding friends, and customizing app experience
- Leveraged React Query to query tweets, posts, and API calls to improve application speed by 10% and reduce database queries by 20%

JP Morgan Forage Program | *React, Python*

- Used perspective data visualization software and Python to monitor stock price trends and create trading strategies
- Worked with JP Morgan engineers to learn skills used in software development at their company like Agile, Git, React, and Python

Course Scheduler | *Java, SQL*

- Created a desktop application using Java and SQL to help users keep track of their activities and manage their time
- Processed various user inputs in the back-end of the app to accurately develop schedules
- Integrated shell scripts to prevent SQL Injection attacks which resulted in a 10% increase in application efficiency

Activities

Teaching Assistant   **Jan 2023 – May 2023**
Java Application Programming

- Teaching approximately 40 students object-oriented programming, GUI, and full-stack application development using Java Derby and Java Swing
- Hosting office hours to clarify any conceptual questions and assist students with projects and debugging code
- Grading student projects by writing test scripts to evaluate runtime to help pinpoint algorithmic inefficiencies so students can improve their code