Faraj Siddique

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EDUCATION

Bachelor of Science in Computer Science, Minor in Mathematics, May 2024
Pennsylvania State University, College of Engineering, University Park, PA
GPA: 3.2/4.0
Relevant coursework: Data Structures and Algorithms, Programming Language Fundamentals, Discrete Mathematics, Systems Programming, Database Management Systems, Operating Systems, Numerical Computations

TECHNICAL SKILLS

Languages: Python, Java, JavaScript (ES5 and ES6), TypeScript, HTML, JSP, CSS, C, PL/SQL, Verilog
Tools: Git, Github, BitBucket, VSCode, PyCharm, IntelliJ, Netbeans, Postman, Jenkins, Firebase, Microsoft Azure
Frameworks: Node.js, React, Flask, Angular
Databases: MySQL, SQLite, Oracle Database (Oracle SQL), MongoDB

WORK EXPERIENCE

Software Engineer Intern, June 2023 – August 2023
SEI Investments – SEI Wealth Platform, Oaks, PA

- Developed and enhanced features for an internal tool, utilized by 4000+ employees to improve efficiency and productivity
- Utilized **Java, JavaScript, JSP, and Oracle SQL** to implement and integrate new functionalities within the internal tool
- Designed a feature to streamline and categorize issue identification and resolution within the wealth platform's processes
- Gained hands-on experience with version control using BitBucket and established efficient continuous integration and continuous deployment (CI/CD) pipelines using Jenkins, automating the development process
- Successfully collaborated with a team of interns to present ChatGPT use cases within SEI, to an audience of 1500+ employees and executives, showcasing its potential benefits in various business scenarios

Software Engineer Intern, December 2022 – May 2023
Nittany AI Alliance – Goodwill Inventory Automation, State College, PA

- Developed an AI powered application with a student-led team to automate sneaker inventory for Goodwill
- Conducted comprehensive industry research on shoe/sneaker price influencers and curated a relevant dataset for application development
- Developed a UI and Backend for a fullstack web application using **JavaScript** and **React** powered by Microsoft Azure

PROGRAMMING PROJECTS

BookBuddy (JavaScript, HTML, CSS, React.js, MongoDB, Firebase), Fall 2023 (In Progress)

- Developing BookBuddy which enables users to find and share books by adding selections to a personalized bookshelf
- Leveraging **React.js** for the frontend interface, **Firebase** for secure user authentication, and **MongoDB** and **Microsoft Azure** to store and manage user data and individual bookshelves
- Implementing server-side operations using **Node.js** and **Express** to efficiently handle requests and responses
- Integrating Google Books and New York Times Books RESTful APIs to facilitate extensive book searches and feature popular and trending books

Contexto.me Clone (Python, Flask, HTML, CSS), Summer 2023

- Designed and implemented a clone of the AI-based word game, Contexto.me, using **Flask** framework
- Integrated Natural Language Processing (NLP) techniques to analyze and understand the semantic similarity between words, using the Stanford NLP GloVe dataset
- Leveraged PyTorch for efficient computation of cosine similarity between high-dimensional vectors

LionAuction (Python, Flask, SQLite, HTML, CSS), Spring 2023
Capstone Class Project (CMPSC 431W), Pennsylvania State University, University Park, PA

- Developed and implemented LionAuction, an auction/bidding site using **Flask** framework
- Established user authentication and session management to ensure secure access to the site
- Created a **SQLite** database to store user information, auction listings, bids, and other relevant data
- Implemented different user roles (Bidder, Seller, and HelpdeskIT staff) with role-specific functionalities

Data Management System (C Programming), Spring 2022
Class Project (CMPSC 311), Pennsylvania State University, University Park, PA

- Developed a storage system enabling data block reading and writing across multiple disks, enhancing data handling capabilities
- Implemented a high-performance write-through caching policy, resulting in significant speed improvements during extensive use scenarios and reduced data access delays