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ERIC SHOCH

EDUCATION

The Pennsylvania State University   **University Park, PA**
College of Engineering | B.S. in Computer Science   *Expected Graduation: May 2025*
Cumulative GPA 3.87/4.00
Dean's List 4/4 Semesters
Coursework: Data Structures and Algorithms, Object Oriented Programming, Systems Programming, Discrete Mathematics

EXPERIENCE

Applied Cognitive Science Lab   **State College, PA**
IT/Developer   *Dec. 2022 – Present*
- Programed grant funded chemistry tutoring game in Unity using C# and linked it with a Prolog knowledge base via API.
- Utilized Docker for containerization and deployment of the med.d2p2.tech web application.
- Created Docker files and docker.yaml for containerizing both Next.js and NGINX applications.
- Responded to remote server issues using Bash shell commands to gain remote ssh access and navigate the terminal.

Explainable AI Laboratory   **State College, PA**
Research Assistant   *Jul. 2023 – Present*
- Developed a survey application using React.js and Flask that collects linked data and stores it in an SQLite database.
- Stored survey application remotely on GitHub and collaborated with team members to push updates and fixes.
- Ran user testing sessions to gather data on user's sense of agency when using generative AI software.
- Analyzed data to interpret user experiences and use information gathered to improve our software.

Google Developer Student Club   **State College, PA**
Secretary   *Feb. 2022 - Present*
- Managed marketing efforts and lead Marketing team to promote club growth and attendance.
- Started collaborative projects with peers to learn new technologies and complete the Google Solutions Challenge.
- Lead educational sessions about Google technologies including TensorFlow, Flutter, Firebase, and Google Cloud Services.
- Doubled general body attendance by pushing social media campaigns and connecting with students at Involvement fairs.

PROJECTS

Case Severity Survey Application
Bootstrap, Flask, JavaScript, HTML/CSS, React.js, SQLite
- Developed a full stack survey application to be used in a user study in IST laboratory research.
- Utilized React.js to create an optimized UI that renders a variable number of question functional components.
- Created a Flask RESTful API to run GET and POST operations on data stored in an SQLite database.

Stock Trading Website
Python, JavaScript, Bootstrap, Flask, SQLite, HTML/CSS, API
- Created a responsive UI using Bootstrap components and JS that allowed buy/sell options on publicly traded stocks.
- Implemented backend with the Flask framework and set up API routes to retrieve information from IEX upon request.
- Utilized Flask for dynamic user registration/logins and querying the database to retrieve real-time stock data.

Course Scheduler
Java, SwingGUI, SQL, Object Oriented Programming Principles
- Designed a course scheduling application in Java that enables users to create, schedule, and drop courses.
- Created an intuitive GUI using JavaSwing library to implement modular architecture for a seamless UX.
- Connected GUI to an SQL database to store user data and retrieve information upon event listener triggering.

Others: Google Clone, Harvard CS50 Project, Personal Website, Stampede Game, Fruit Ninja Variant Game

SKILLS

- **Languages:** C, C#, HTML/CSS, Java, JavaScript, JSX, Python, SQL
- **Frameworks:** Next.js, Flask
- **Developer Tools:** Docker, Git, GitHub, Unity, Unix/Linux, Visual Studio Code, Apache NetBeans
- **Libraries:** Bootstrap, React.js