

Victor Elkins

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Education

University of Houston

Bachelor of Science, Computer Science (3.5/4.0 GPA)

Houston Community College

Associate of Science, Computer Science

Graduation Date: Dec 2024

Graduated: Dec 2022

Work Experience

ExxonMobil - Software Engineer Intern

May 2024 – August 2024

- Developed an API generator on the companies UDO Platform using Snowflake, DreamFactory, Go, Python, Kubernetes, Docker, and Azure VMs on Linux/Ubuntu, hosted on OpenShift boosting API creation efficiency by 90%.
- Integrated Azure Key Vault for security and OAuth along with integrated SSO, implementing business rules and general security.
- Automated deployment pipelines with Apache Airflow, integrating security, validation, and monitoring using DataDog, Git, and GitHub. Implemented Agile methodology on the UDO platform to optimize IT infrastructure and enhance system performance for the UDO team.
- Revamped the company's ticketing system with Vue.js and Tailwind CSS, automating ADO board item creation for customers. Implemented JavaScript for dynamic features, used Tailwind CSS for modern design, and integrated automatic email receipts for ticket transactions using node.js, utilized Azure hosting and SSO with OAuth.

Dycom Industries - Software Engineer Intern

June 2023 – August 2023

- Developed a large-scale decision tree linter in Python, integrating it into the CI/CD pipeline in GitLab, an Angular frontend, and a Visual Studio Code extension with Java.
- Collaborated with interns to deliver a timely final product, using GitLab for version control and Jenkins for CI/CD, managing appointments, conducting code reviews, and fostering a productive team environment.
- Improved decision tree quality, saving Dycom Industries hundreds of development hours towards review.

Vertical AIT- Software Engineer Intern

Feb 2023 – June 2023

- Designed and implemented internal tools including dotnet, jQuery, Bootstrap, and Azure DevOps.
- Managed the coordination and task assignments among the small team, ensuring consistent code reviews and on time deliverables.
- Integrated a backend image modeling system with a UI for use in an industrial setting, reducing tracking time by 95%

Project Experience

Cougar CS Revamp Web Development Committee

Jan 2023 – Present

- Collaborated in the overhaul of the CougarCS website, utilizing Next.js, React, and Tailwind CSS.
- Led meetings and managed a team of interns, focusing on general DevOps tasks, feature management, and project collaboration using GitHub and Git. Created and maintained the general architecture of the project.

K-hack 2024 - Molecular Structure Optimization

Jan 2024 – May 2024

- Implemented machine learning techniques like Gaussian Process Regression to obtain stable molecular structures for industrial applications in jupyter labs.
- Engineered a high-performance, lightweight web application using Node.js, React, and jQuery, showcasing advanced project functionalities and delivering an intuitive user experience for demonstration purposes.

Student Planner API

Jan 2023 – August 2023

- Implemented a comprehensive CRUD system using the ASP.NET Framework, including a RESTful API with Swagger UI, to create a planner for managing crucial assignments and deadlines.
- Integrated an SQL Database to ensure seamless and secure data storage within the planner.

Multithreaded Web Server

Jan 2023 – May 2023

- Developed a multithreaded web server in Rust, leveraging async/await for efficient HTTP request handling.
- Implemented concurrency features to manage multiple client connections concurrently, ensuring robust performance and scalability.

Medical Bill Uploading Service

Oct 2022 – Dec 2022

- Developed a Node.js and Express-based RESTful API for uploading and managing medical bills.
- Implemented automated testing with Chai and Mocha to ensure API functionality and reliability.

Skills

Languages: C#, C++, Java, JavaScript/TypeScript, Python, Rust, R, HTML/CSS, SQL, PHP, GO, SQL

Tools & Frameworks: Dotnet, ReactJS, Next JS, Express, Pandas, NumPy, JQuery, Azure, Snowflake, Java Spring/Spring boot, AWS