

Syed Oeshic

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EDUCATION

University of Notre Dame

B.Sc. in Computer Science

Notre Dame, IN

May, 2024

QuestBridge National College Match (Recipient of Full Scholarship College Education)

2018

ENGINEERING PROJECTS

Personal Project: Stock Visualization Project, Owner & Software Engineer

July, 2024-Present

- Building an interactive stock market visualization web application by connecting React Libraries (React-routers, Recharts) and Flask that takes in 10 years of historical financial data from major US markets.
- Simplifying and enhancing market analysis for thousands of stocks by introducing features such as stock search and chart visualization through well-documented coding to improve stock market research at 0 cost.

Computer Networks: Tracing Project, Programmer

March, 2024-May, 2024

- Traced 10 minutes of network traffic and analyzed transmission, packet losses, applications using Wireshark

Integrated Eng. & Bus. Practices: Reverse Engineered Business Strategy, Member

September, 2024-December, 2023

- Reverse Engineered the business strategy of Gucci in a team of 6 members by analyzing company aspirations, industry, competitors, customer segmentation, core competencies, advantages, value chain and finances.

Programming Paradigms: Stock Market Scraping Project, Programmer

January, 2023-May, 2023

- Implemented a dynamic stock market scraping web application with object-oriented programming using Flask, HTML, CSS, Bootstrap, Jinja2 template and utilized SQLite and SQLAlchemy for database management.
- Integrated Yahoo Finance API to include real-time market data of 500+ stocks.

Visual Effects: Animation and Dynamics Project, Designer

August, 2022-December, 2022

- Animated and rendered 360 frames (Animation) and 168 frames (Dynamics) HD_1080p video projects and using Autodesk Maya 2022 and DaVinci Resolve in order to implement keyframe animation, path constraints, caching Bifrost Fluid dynamics and forward kinematics rigging using downloadable models.

Data Structures: Snake Game Simulator, Pre-ternship Software Engineer

March, 2022-May, 2022

- Collaborated with a team of 4 members to brainstorm and design a simplified custom version of the popular Snake game using Python under the guidance of a project manager.
- Conceptualized 6 game elements including snakes, gameboard and fruits utilizing stacks, nodes, and classes.

Introduction to Engineering Systems: Individual Programming Project, Programmer

March, 2020-May, 2020

- Developed an app that animates 1 to 10 disks on a window using some pre-defined functions in MATLAB.
- Designed a GUI that collects 3 inputs and displays the number of disk interactions until stopping criteria are met.

EXPERIENCE

University of Notre Dame

January, 2024-May, 2024

AVFX, Teaching Assistant

- Maintained consistent and professional correspondence with students and the professor for 8-12 hrs/week.
- Provided constructive, positive feedback to students inside and outside the classroom of 9-1 ratio regularly.

TechPoint

TechPoint S.O.S. Challenge, Software Engineer

June, 2020-July, 2020

- Participated in a multi-disciplinary 6 member-team from business, mathematics and engineering backgrounds to create a solution for the challenges faced by the schools and colleges industry during the COVID-19 pandemic.
- Collaborated 20 hours per week on a flask-based web application under the guidance of an experienced industry professional that allows students to login and find study partners to create a go-to-market product prototype.

JPMorgan Chase & Co.

Software Engineering Virtual Experience, Intern

May, 2020-June, 2020

- Deployed a development environment using Windows CLI to repair coding issues in a dynamic web application.
- Established financial data feeds, developed frontend of web application and improved data visualization using Python, React, Typescript, Perspective under online mentorship.

TECHNICAL LANGUAGES AND SKILLS

Programming Languages: Python, C++, Javascript, HTML, CSS, C, MATLAB, TypeScript, SQL

Frameworks & Tools: Flask, React, Git, Bootstrap, SQLite, SQLAlchemy, Jinja2 template, Perspective, Wireshark, Vim

Certifications: MS Azure Fundamentals

Natural Languages: English, Bengali, French