

Isha Varrier

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EDUCATION

California Polytechnic State University - San Luis Obispo

B.S in Computer Science

San Luis Obispo, CA

Expected Graduation: May 2027

RELEVANT COURSEWORK / CERTIFICATES

Cal Poly SLO | *Freshman Year*

September 2023 - June 2024

- Fundamentals of Computer Science
- Data Structures
- Project-Based Object Oriented Programming and Design
- Introduction to Computer Organization
- Linear Mathematics

Johns Hopkins University | *HTML, CSS, and Javascript for Web Developers*

July 2023

- Understand Javascript fundamentals such as - objects, functions, arrays, closures, and scope isolation
- Manipulate web page components using the Javascript Document Object Model API and AJAX

EXPERIENCE

Software Engineering Intern

June 2022 – August 2022

Optum - United Health Care

Virtual

- Use Machine Learning and Classification Algorithms to recognize burnout from biological data with accuracy of 99 percent
- Collaborated with other interns by utilizing IoT devices to design and deploy viable solutions for the market
- Presented findings as part of a data storage system that is resilient to failure and user friendly

Cosmo Coding Vice President and Tutor

Dec. 2021 – May 2023

Cosmo Coding

Oak Park, CA

- Taught and curated weekly lessons of Python, JavaScript, and Machine Learning to 60+ students
- Managed team through communication and collaboration to attend local elementary schools, increasing access for Computer Science curriculum within our community
- Host a summer program for Boys and Girls Club to provide 40+ Los Angeles students with opportunities to code

PROJECTS

Personal Website | *HTML, CSS, APIs, Github Desktop*

August 2023

- Developed my first front-end application using VSCode
- Utilized Bootstrap to contribute to UI design
- Implemented second web page including a responsive photo gallery with Lightbox

Stock Market Predictor | *Python, Jupyter Notebook, Pandas*

July 2023

- Utilized Machine Learning and historical data from 1950-2023 from yfinance package to predict Stock trends
- Trained a random forest model, made predictions using backtesting, and improved the model through predictors

Crotchet Calculator | *Javascript, HTML, CSS, Github*

July 2023

- Developed a Javascript function to calculate number of stitches necessary to create crotchet tops
- Created user-friendly UI which quickly displays the number of rows, stitches, and layers to guarantee perfect fit.

TECHNICAL SKILLS

Languages: Java, Python, C, C++ JavaScript, HTML/CSS,

Developer Tools: Git, VS Code, Visual Studio, Pytorch, Jupyter Notebook

Libraries: pandas, NumPy