

Ashwanth Vijayan

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EDUCATION

University of Michigan

B.S in Computer Science

Ann Arbor, MI

Expected Dec. 2025

Relevant Coursework

- Intro to Programming (EECS 183), Programming and Intro Data Structures (EECS 280), Discrete Mathematics (EECS 203), Data Structures and Algorithms (EECS 281), Foundations of Computer Science (EECS 376), Calc 1, Calc 2, Multi-variable Calculus, Linear Algebra

EXPERIENCES

Software Engineer Simulation

Aug. 2023 – Sep. 2023

JPMorgan Chase Co.

Novi, MI

- Facilitated integration of stock data price feed for local system analysis
- Employed React and Typescript to integrate Chase's Perspective tool for data visualization
- Utilized Perspective to construct a live ticker and bid/ask chart for a trading dashboard

Project Team

March 2023 - April 2023

Twitter Post Classifier

Ann Arbor, MI

- Trained Bernoulli Native Bayes Classifier on 10,000+ posts, achieving 87% topic prediction accuracy
- Applied conditional probabilities and Bayes theorem, calculating predictions via log probability scores
- Collaborated with team to implement and design project code

SAT Tutor

Sep. 2021 – July 2023

Scored : 1570

Novi, MI

- Helped students improve their SAT scores with my personal study plan and advice from a top scorer
- Gave weekly practice tests and catered specific section based practice for students' needed areas of improvement
- Average student score improvement was 200 points

PROJECTS

Stock Alert | *Python, Pandas*

Sep. 2023 – Sep. 2023

- Developed a Python stock alert script interfacing with Yahoo Finance API for live stock data monitoring
- Employed pandas for Excel sheet parsing, enabling email alerts on stock price drops below preset thresholds
- Integrated pytz and datetime libraries for precise email timestamp incorporation and utilized the SMTP protocol for efficient email transmission

Payment Reminder | *Python*

July 2023 – Aug. 2023

- Created a Python payment reminder script utilizing Google Drive API and Google Sheets API to automate payment tracking
- Extracted data from Google Sheets, including email addresses, payment due dates, reminder dates, and payment status
- Implemented conditional logic to determine whether to send payment reminders based on payment status and dates
- Configured email notifications using HTML for enhanced formatting and structure

Note's Website | *Python, Flask/Flask-SQLAlchemy, HTML, Bootstrap*

June 2023 – July 2023

- Constructed a full-stack application with Flask and REST API, incorporating HTML, and applied Bootstrap for the front-end
- Employed Flask and SQL-Alchemy for user authentication, data storage, and login credentials management
- Enhanced front-end responsiveness and user interaction using Bootstrap
- Acquired valuable insights into database operations and secure user credential storage

Youtube Homepage Clone | *HTML, CSS*

May 2023 – June 2023

- Crafted a YouTube Homepage Clone utilizing HTML, CSS Grid, and CSS Flexbox
- Acquired expertise in HTML structure and diverse CSS techniques for content arrangement
- Explored front-end code organization and adaptability for different display sizes and settings

TECHNICAL SKILLS

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

Frameworks: React, Node.js, Flask, FastAPI, Bootstrap

Developer Tools: Git/Github, VS Code, PyCharm, Xcode

Libraries: Pandas and NumPy