VINCENT ALLAM

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career objective

- Wanting to provide a positive impact to humankind by applying my knowledge of AI/machine learning in areas such as healthcare, human capital, and financial services.
- GitHub Profile: https://github.com/VincentA004

experience

Jun 2023 - Present

COMPUTATIONAL RESEARCH LAB ASSISTANT

Baylor College of Medicine, Houston , Texas

- Complied and cleaned up research data and produced AI models to predict patient diagnosis
- Performed reverse inference on brain pattern recognition frameworks in relation to visual, motor and interoceptive functions
- Used machine learning methods such as linear and non-linear SVM's to optimize inverse inference through 4 dimensional brain patterns
- Learned to quantify brain signals as a function of 4 dimensional space-time using advanced computational methods such as SVM's, Neural networks, and causal modeling (hidden Makarov chains)
- Used matlab to create stimulus based GUI to encode and collect visual data for patients

May 2022 - Present

AUTOMATION DEVELOPER

TAP Innovations, Irving, Texas

education

Expected graduation **May 2023**
HIGH SCHOOL DIPLOMA
GPA **3.8**
Hebron High School,
Carrollton, Texas

Relevant Coursework

AP Calculus BC (5)

AP Computer Science

AP Physics C: Mechanics Exam

AP Physics C: Electricity and Magnetism

AP English Literature and Composition

AP Chemistry (5)

AP Biology (5)

AP United States History (4)

AP English Language and Composition (5)

AP Physics 1

AP Environmental Science (5)

Awards & Honors

A Honor Roll

Calculus student award

AP Scholar with Distinction

Chemistry student award

Extracurricular Activities

Hebron Red Cross (Founder and President) [7 hrs/week]

Technology Student Association (TSA) [4 hrs/week]

Science National Honor Society (SNHS) [4 hrs/week]

Business Professionals of America (BPA) [2 hrs/week]

National Honor Society (NHS) [4 hrs/week]

- Used automation scripts (python) to retrieve client data from one HCM system and transfer the data to another HCM system
- Worked with clients and project managers to create feasible and affordable solutions
- Consulted with customers and other departments on project status, proposals and technical issues, such as software system design and maintenance.
- Won developer of the month (9/22)

DECA [2 hrs/week]

Intellichoice [3 hrs/week]

Health Occupations Students of America (HOSA) [2 hrs/week]

Key Club [2 hrs/week]

Jan 2021 - May 2022

JUNIOR RPA DEVELOPER

Allruva Technology Services, Lewisville, TX

- Created robotic processes to automate and speed up workflows for clients.
- Modified existing software to correct errors, adapt to new hardware or upgrade interfaces.
- Collaborated with a team of RPA developers to create affordable solutions for client.
- Won developer of the year and product idea of the year (12/21)

skills

- Python - able to build projects in numpy, pandas, selenium and tensorflow
- SQL - able to write stored procedures and query large databases
- Java - able to create sophisticated projects and backend devolopment
- C# - able to build and deploy .NET and desktop applications

volunteer experience

Aug 2022 - Present

AP CHEMISTRY LAB ASSISTANT | Hebron High School Chemistry Department, Carrollton, Texas

- I help teach and tutor underclassman taking AP chemistry. I provide guidance to them and help the teachers set up time intensive labs. [50 hrs]

Apr 2022 - Present

BLOOD DRIVE COORDINATOR | American Redcross, Carrollton, Texas

- Worked with the official American red cross and cordinated blood drives at my highschool.
- Handled school side logistics of a blood drive [70hrs]

Aug 2021 - Present

TUTOR | Intellichoice, Carrollton, Texas

- Helped tutor impoverished youth so they obtain scholarly excellence through the subject of math [35 hrs]

Sep 2021 - Dec 2021   **GENERAL CHEMISTRY TUTOR** | Science National Honor Society (SNHS), Carrollton, Texas

- I helped tutor general chemistry to students that struggled with chemistry [50 hrs]

projects

AI Liver transplant survival predictor (Python) - Predicts survival rate of liver transplant patients based on donor and patient medical histories

AI Algorithmic trader (Python) - Trades stocks listed in the S&P 500 index based on an AI model trained on historical stock data

Backtesting technical trading indicators (Python) - Back-tested common technical indicators to find indicator that yields greatest ROI

Neural network from scratch (Python) - Built neural network from scratch (numpy) that predicts digits based on images

Alpaca Brokerage Autotrader SMA (Python) - Trading program that uses SMA to autotrade stocks through Alpaca paper brokerage

TAP Innovation Automation scripts (Python) - Automation scripts to transfer files from one system to another

GPU bot buying scripts (Python) - Automation script that buys GPU's from retail stores

AP Chemistry Titration Programs (Python) - Calculates and models acid base titration reactions

AP Computer science labs (Java) - Accumulation of labs done in AP computer science

Projects listed above can be found here: https://github.com/VincentA004