Jasdeep Ahluwalia

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EDUCATION

University of Maryland, College Park   College Park, MD
BS in Computer Science, Minor in Statistics   *Expected Graduation: May 2025*
Relevant Courses: AI/ML, Applied Data Science (SQL, Python, Tableau), Software Engineering, Computational Finance, Data Structures, Algorithms, Mobile Development (Flutter/Kotlin), Web Apps (TypeScript, Angular, React), Cloud Computing, Computer Systems (C/C++), Databases, Object Oriented Programming (Java)

Alpha Kappa Psi Professional Fraternity – *Investment Fund Analyst*   College Park, MD
- Achieved a **11% annual ROI on a $15000 portfolio** while collaborating with 4 analysts.
- Led portfolio risk assessment meetings suggesting mitigation strategies & preventing possible losses.

EXPERIENCE

Michelin Tires – *AI/ML Software Engineering Intern*   May 2023 – Present
- **Changed data retrieval for 1000's of employees** by communicating with 2 AI/ML engineers to integrate a GPT-3.5 NLP Deep Learning model on Azure Databricks, enabling non-SQL searches on the Data Lake (CDL).
- **Achieved an 8x speed up** in data retrieval by improving an Azure data pipeline's efficiency for a Power BI App.
- Constructed a **client-facing tire sales API** using Python, SQL, Java, PySpark, and Spring Boot.
- Integrated automated debugging into an AngularJS app through Unit Testing & Regression Testing.

Sellerchain Inc. – *Software Engineering Intern*   Jun 2022 – Present
- **Led development** on an Angular TypeScript Amazon app resulting in a 40% seller conversion in 3 months.
- **Saved $1000+ monthly** by migrating a tracker's backend to Amazon Web Services REST APIs & AWS S3.
- Delivered **over 30,000 lines of code** changes & **15 product enhancements** by collaborating in an agile setting.
- Reduced 25 hours of weekly tracking by constructing a shipment database (Python, MongoDB and SQL).
- **CEO Recommendation:** jasdeepahluwalia.com/files/sellerchain_recommendation

Proxyfarm – *Full Stack Developer*   Jan 2021 – Aug 2021
- Implemented a back-end infrastructure for a proxy service with **100+ monthly users and 10,000+ IPs**.
- **Removed 100% of manual order tracking** by working on validation & order processing using MongoDB.
- Developed user and employee dashboards applying proficiency in NodeJS, React, Redux, CSS, and HTML.
- Achieved a **99.9% uptime** demonstrating knowledge of real-time operating system concepts.

PROJECTS

PlatePlanner - Meal Plan Generator | *Django, SQL, React, NodeJS, JavaScript*   May 2023
- Developed a meal generator with **over 10 5-star reviews** & a relational database (MySQL & AWS RDS) backend.
- **Reduced 60%(1.66x speed up)** of requests using REST APIs and caching(Redux).

Hash Automation - AI Crypto App | *React, Docker, PyTorch, Deep Learning*   Jun 2022 – Jan 2023
- Built a NFT bot with **over $200,000 in volume** using a PyTorch Logistic Regression model & Apache Storm.
- Managed **hundreds of users** in alpha testing; applied AWS S3 on-chain security; **No security issues** in 8 months.

BigTh!nk AI Club - Malaria Detection | *Python, TensorFlow, Keras, CNN*   Jan 2022 – May 2022
- Coordinated a team of 35 students to develop on Google Colab, enhancing productivity via bi-weekly meetings.
- Reached an **85% accuracy** making Convolutional Neural Network to detect malaria, trained on 100,000 images.

AlgoTrader - Algorithm Trading Tool | *Numpy, Pandas, Flask*   Jan 2022 – Apr 2022
- Reduced 100% of human error by incorporating visual backtesting & trading algorithms like Mean Reversion.
- Implemented support for **98 currency exchanges**; using CCXT and a Flask API.

TECHNICAL SKILLS

Languages: Python, Java, SQL, JavaScript, C++, HTML/CSS, TypeScript, Go, Kotlin, Flutter
Tools & Frameworks: Angular, React, MySQL, Node.js, Git/GitLab, Docker, Kubernetes, VS Code, Springboot, Flask
Libraries & Services: PySpark, NumPy, Pandas, TensorFlow, Azure, AWS (Cloud Practitioner) RDS, EC2, S3