



# JASDEEP AHLUWALIA

 [linkedin.com/in/jasdeep-ahluwalia](https://www.linkedin.com/in/jasdeep-ahluwalia)  [jasdeep.a@outlook.com](mailto:jasdeep.a@outlook.com)

 [github.com/ahluwalij](https://github.com/ahluwalij)  [twitter.com/JazaScript](https://twitter.com/JazaScript)  New York, NY  (347)-322-3659

## Education

### Univ. of Maryland-College Park, Computer Science & Statistics

*Expected Graduation: Dec 2024*

**Relevant Coursework:** Computer Vision, Intro Computing (Python), OO Programming/Data Structures (Java), Functional Programming/Data Structures (OCaml), Advanced Linear Algebra, Computer System Organization (C/C++), Practical Tools for Data Science (SQL, Tableau, Python, PySpark), Machine Learning, Algorithms, Optimization, Data-Driven Web Applications.

### BigTh!nkAI Artificial Intelligence Club

- Engineered a machine learning based Convolutional Neural Network to detect/distinguish between malicious malaria strains/cells in images using Python, Tensorflow, Keras, Seaborn, Neural Networks, and Google Collab.
- Trained neural network against a dataset of 100,000 archived images from compiled research to improve model accuracy.

### Johns Hopkins BMEI, Baltimore, United States

*Sept 2020 - Jan 2021*

- Modeled systems using engineering principles to solve biological, physiological, and/or medical design problems over a six-week period.

## WORK EXPERIENCE [jasdeepahluwalia.com/work](https://jasdeepahluwalia.com/work)

### Michelin [ddi.michelin.com](https://ddi.michelin.com)

*May 2023 - Present*

- Played a pivotal development role in Michelin's transition to a data-driven operations approach. **Software Engineer Intern - AI/ML**
- Utilized Python, SQL, Java, PySpark, and Spring Boot to construct analysis of datasets of tire performance & manufacturing statistics.
- Implemented scalable automated data pipelines on AWS and Azure cloud platforms and databases, enabling real-time data analytics.
- Integrated a GPT-3 Machine Learning model so employees can search data lakes via queries using Natural Language Processing(NLP).
- Designed lean proof of concepts (POC) & participated in daily stand-ups, backlogs, and two-week sprints to back team decisions.

### Sellerchain Inc. [beta.sellerchain.com](https://beta.sellerchain.com), [smp-design-branch-dev.azurewebsites.net](https://smp-design-branch-dev.azurewebsites.net)

*Jun 2022 - Present*

- Led the fullstack development on an Angular .NET core app using Javascript, HTML, and CSS. **Software Engineering Intern**
- Worked with various AWS REST APIs to integrate cloud-based functionalities to create solutions for high-volume Amazon sellers.
- Leveraged data management techniques and database solutions, such as MongoDB and SQL, to efficiently handle big data.
- Worked with cross-functional teams showcasing adaptability, teamwork, and problem-solving skills in an agile development environment.

**CEO Recommendation:** [jasdeepahluwalia.com/files/sellerchain\\_recommendation](https://jasdeepahluwalia.com/files/sellerchain_recommendation)

### Proxyfarm [proxy-farm.com](https://proxy-farm.com)

*Jan 2021 - Aug 2021*

**User Success:** [twitter.com/proxyfarm](https://twitter.com/proxyfarm)

**Lead Developer**

- Constructed and designed a premium proxy service through international IP acquisition and self-taught network development.
- Utilized MongoDB to efficiently manage high-volume, low-cost orders.
- Developed a user dashboard and online storefront with React Redux and Stripe.
- Configured and implemented automation for Squid proxy servers: IP masking, IP forwarding, Traffic Filtering, User:Pass authentication, Stored Server Logs, and maintained a pool of multiple thousands of IPs.

## PROJECTS [jasdeepahluwalia.com/projects](https://jasdeepahluwalia.com/projects)

### PlatePlanner - Meal Plan Generator [plateplanner.org](https://plateplanner.org)

*May 2023*

- Developed a meal plan generator that personalizes meal plans based on user food preferences and schedule.
- Integrated multiple APIs to access recipe and nutrition databases, implementing caching to optimize load times and reduce API calls.
- Engineered a RESTful backend server & relational database using Django and MySQL, enabling users to log in and store favorited meals.
- Utilized a modern tech stack including JavaScript, React, Python, SQL, HTML, CSS, Git, and Redux to create a user-friendly experience.

### Hash Automation - AI Crypto Trading Demo: [youtube.com/watch?v=v\\_RfGE2vPys](https://youtube.com/watch?v=v_RfGE2vPys)

*Jan 2022 - May 2022*

- Designed and implemented AI algorithms that optimize the minting process in an Ethereum & Solana NFT bot.
- Employed machine learning techniques to continuously improve the bot's decision-making and adaptability.
- Integrated AWS S3 and a fully on-chain authentication system to secure user data across Mac, Windows, and Linux.
- Crafted an aesthetic and intuitive frontend using React and TailwindCSS.
- Led a successful alpha period with over 50 users.

## Technical Skills

**Core Skills:** Python, Java, JavaScript, Databases, Rust, Golang, OCaml, Ruby, C, and Git  
**Backend:** SQL, MongoDB, Express, Flask, .NET(familiar)  
**Frontend:** React, Angular, Tailwind CSS, Material Design/UI, SCSS, Figma  
**Certifications:** AWS Certified Cloud Practitioner