

## TECHNICAL SKILLS

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- JavaScript | TypeScript | HTML | CSS | React.js | Next.js | GraphQL | Python | SQL | REST APIs | AWS Lambda
- AWS ECR | AWS EC2 | AWS API Gateway | AWS Dynamo DB | MongoDB | Node.js | Firebase | Git | GitHub | Docker
- TensorFlow | Keras | PyTorch | Scikit-learn | NumPy | Pandas | Matplotlib | Pyplot | OpenCV | ChromaDB | Langchain

## PROFESSIONAL EXPERIENCE

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Algorithm

**Software Engineer, Intern**

Jan 2023 - Present

- Designing and implementing interfaces and **APIs** with payments infrastructure using modern **web development technologies** including **Next.JS** and **JavaScript**, working on both **frontend** and **backend**.
- Developing **Python** scripts to process geospatial and agricultural data from **AWS S3 cloud** into reports.
- Engineering pipelines to log user activity through **AWS S3** and **AWS API Gateway** for customer support.

## PROJECTS

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**Image Search Engine**  

- Engineered a full-stack website with **Next.js/JavaScript** enabling users to easily find similar images.
- Implemented drag-and-drop functionality, a beautiful grid layout, and sidebar navigation and animation.
- Deployed a **PyTorch** computer vision model through a **REST API integration** backend built with **BentoML** and hosted using automated **Terraform** infrastructure for **AWS API Gateway** and **AWS Lambda**.
- Drove backend latency down by **20%** of baseline through optimization of model architecture.

**Temperature & Power Consumption Time Series Forecasting Model** 

- Implemented univariate and multivariate time series models for temperature forecasting using **Python**.
- Achieved **30%** better performance than baseline (metric was Mean Absolute Error) by employing advanced machine learning techniques including 1-dimensional CNNs, extensive hyperparameter tuning, Adam optimizer, and exponentially decaying learning rate using **TensorFlow**.
- Utilized **NumPy**, **Pandas**, **Matplotlib** and **Pyplot** for data manipulation, cleaning, preprocessing, analysis, and visualization.

**Footwear Ecommerce Website** 

- Developed a full-stack ecommerce website for footwear with **React.js/JavaScript** and **Material UI**.
- Features include account creation, full-text product search, and payments integration with **Stripe**.
- Built backend infrastructure to handle **API** requests and an authentication cache, using the powerful **backend technologies GraphQL** and **Redis**, and a database system with **MySQL** and **TypeORM**.
- Deployed the website using modern containerization technologies **Docker** and **AWS ECR**.

## CERTIFICATIONS

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| <b>Database and SQL for Data Science with Python</b> , IBM      | Dec 2023 |
| <b>Deep Learning Specialization</b> , DeepLearning.AI           | Dec 2023 |
| <b>Advanced Machine Learning on Google Cloud</b> , Google Cloud | Nov 2023 |
| <b>IBM Professional Machine Learning Certificate</b> , IBM      | Sep 2023 |
| <b>TensorFlow Developer Certificate</b> , TensorFlow            | Aug 2023 |

## OTHER

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- Active contributor to the open-source packages **TensorFlow** and **Scikit-learn**.
- Write a technical blog on **Medium** and post videos on **YouTube**, sharing my passion for AI/ML.