Nick Roshdieh

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SUMMARY

Highly motivated Machine Learning Engineer seeking technical roles to help find creative solutions to complex problems. A self-starter with strong communication and analytical skills who is comfortable interfacing with colleagues and clients at all levels of organizational hierarchy and technical proficiency.

SKILLS

Programming Languages: Python | JavaScript | TypeScript | SQL | HTML/CSS | C
Frameworks: Pandas | NumPy | TensorFlow | Scikit-Learn | FastAPI | Django | Flask | NodeJS | React
Databases: PostgreSQL | MySQL | Snowflake | MongoDB
Tools and Cloud: Git | Docker | Amazon Web Services (AWS) | Google Cloud Platform (GCP) | Visual Studio Code | Jupyter Notebooks |Electronics and PCB Design (Ask to see my business card!)

WORK EXPERIENCE

Clark Construction Group LLC **February 2020 – Present**
Machine Learning Engineer | Data Scientist *Bethesda, MD*

Intelligent Tracker

- Conducted domain research, gathered requirements, and presented a business case to company leadership that would allow us to add considerably more opportunities in the revenue funnel, earlier in the project lifecycle.
- Designed, developed, and implemented the application which utilizes NLP and web scraping with Python, resulting in the addition of over **$300M** of targeted construction projects a month to the business revenue funnel.
- Deployed the application in **Google Cloud Platform** (GCP) and maintained the model with **MLOps** best practices, such as model drift monitoring, and reproducibility.

Clark Contracts

- Led development of a project to create a central hub for all of Clark's vast contract data, including processing, entity recognition, and conversion to structured data.
- Developed **event-based architecture** to ingest documents and process through business logic and non-deterministic entity recognition.
- Deployed application via serverless compute in **Amazon Web Services** (AWS). Structured data was stored in a Snowflake Data Warehouse, and exposed with an API for a web application.

Intelligent Automation Inc. **May 2016 – October 2016**
Engineering Intern *Derwood, MD*

- Reverse engineered non-adaptive traffic controllers to output real-time data to mimic expensive high-resolution controllers with shell scripting, saving the company >$8,000 on hardware procurement costs.
- Developed a prototype automated traffic control system, using a LSTM model to create optimal traffic patterns
- Debugged Faulty Instrumentation with Embedded C. Allowed these devices to be sent back out to the field.

EDUCATION

University of Maryland, College Park **August, 2019**
A. James Clark School of Engineering -- BS, Electrical Engineering *College Park, MD*