1 Daniel Burnham Ct.
Unit 805
San Francisco CA 94109
(209) 587-3167

Tyler Chase

tylerchase56@gmail.com
linkedin.com/in/tchase56
github.com/tchase56
medium.com/@tchase56

Employment

Senior Data Scientist **Fortune Brands Innovations** **July 2023-Present**

- **LLM Tariff Analysis** (2025). Wrote LLM pipeline in LangGraph to pull materials from 25000 technical documents to verify appropriate tariffs are being applied saving millions of dollars (Python/LangGraph)
- **Demand Forecasting** (2024). Maintain and productionalize time series forecasting product for multiple businesses in the portfolio (Python/SQL/Flyte)

Principal Data Scientist **Noodle.ai** **July 2018-April 2023**

Growth stage company building enterprise scale AI native SaaS applications in supply chain

- Develop and deploy enterprise artificial intelligence applications for the supply chain using time series data
- **Managing Demand Prediction Deployment** (2022). Managed engineers and data scientists on configuration of demand tool across 2 countries for enterprise scale company and presented results to customer (Python/SQL)
- **Raw Material Inventory Management POC** (2022). Wrote proof of concept for raw material inventory management tool for an enterprise scale cosmetics company using time series and machine learning methods. Resulting in an average lift of 18 percentage points over customer baseline. (Python/SQL)

Machine Learning Engineer **Allocate.ai** **June 2017-December 2017**

Seed stage company automating time sheets through computer activity monitoring

- **Computer Activity Filter** (2017). Used custom GloVe word embeddings and LSTM neural network to determine activities to filter in the timesheet application, resulting in 88.4% precision. (Python/TensorFlow)

Education

Stanford, CA **Stanford University** **September 2013 – December 2017**

- Ph.D. in Applied Physics, January 2018. GPA: 3.67
- M.S. in Applied Physics, January 2017. GPA: 3.67
- Relevant Coursework: Convolutional Neural Networks for Visual Recognition, Natural Language Processing with Deep Learning, Machine Learning, Modern Applied Statistics: Data Mining, Modern Applied Statistics: Learning, Statistical Methods in Finance
- **Deep Visual Learning of Reddit Images** (2017). Used three convolutional neural networks to categorize posted images to relevant subreddits (65% acc), as well as auto-tag not-safe-for-work images (96% acc). Used multitask learning to boost performance and saliency maps to visualize important characteristics. (Python/TensorFlow)

Davis, CA **University of California, Davis** **September 2008 – June 2012**

- B.S. in Physics with a minor in Mathematics, June 2012. GPA: 3.91

Papers

- **Deep Visual Learning of Reddit Images (2017):** Chase, Tyler, et al. "Deep Visual Learning of Reddit Images." cs231n.Stanford.edu, 2017, cs231n.stanford.edu/reports/2017/pdfs/129.pdf.
- **Additional Machine Learning and Physics Papers:** scholar.google.com/citations?hl=en&user=yJnI170AAAAJ

Languages/Tools

- Python (expert); SQL (expert); LangGraph (proficient); Docker (proficient); R (prio experience); PyTorch (prior experience); TensorFlow (prior experience); MLFlow (prior experience); C++ (prior experience)