DANIIL TURPITKA

Bay Area, CA|+19499423856 | daniil.turpitka@gmail.com | https://www.linkedin.com/in/daniilturpitka/
https://leetcode.com/dturpitk/

EDUCATION

Carnegie Mellon University **Expected May 2025**
Master's, Software Engineering

University of California - Irvine **September 2019 - June 2023**
Bachelor's, Data Science *GPA: 3.56*

- **Technical Skills:** Python, C++, Java, JavaScript, MySQL, SQL, Postgres, NumPy, TensorFlow, Prometheus, Spring, NodeJS, AngularJS, SCRUM, Data Structures, OOP, Machine Learning.

- **Relevant Courses:** Algorithm Design, Machine Learning and Data Mining, Data Structures Implementation and Analysis, Project in Computer Science, Advanced Python, Computer Architecture, Python API's and Libraries, Programming in C++, Data Management, Intro to AI.

PROFESSIONAL EXPERIENCE

Apple **Cupertino, CA, USA**
Software Engineering Intern *June 2022 - September 2022*

- Developed 3 versions of highly scalable Python framework, utilizing Prometheus API to optimize usage of external APIs in company's internal Machine Learning platform. Enhanced and extended system's real time model performance monitoring capabilities.
- Incorporated developed framework to build 6 customizable Grafana dashboards for engineers to monitor vitals, usage volume, and performance of 2 critical internal services.
- Closely collaborated with customer team's engineers and project managers during development, testing, and deployment phases of the project to integrate feedback and customer requirements into the system.
- Conducted demonstration of capabilities and use cases to 10+ customers and upper management to showcase application potential.

UC Irvine **Irvine, CA, USA**
Computer Science Lab Tutor *September 2022 - June 2023*

- Facilitated 20+ students familiarizing with Python and C++ programming concepts. Introduced core debugging concepts, enhanced understanding of syntax, outlined main similarities and differences with other programming languages.
- In collaboration with coworkers, created a comprehensive C++ debugging tutorial with 15 debugging tips for students in this class to use while completing course assignments.
- Reported to the course instructor on how well students perceive material, most common difficulties, measures necessary to better prepare student for the next course in the sequence.
- Generated a report with 10+ recommendations on improving course material and structure to enhance learning experience for future students.

UC Irvine **Irvine, CA, USA**
Undergraduate Research Assistant *March 2022 - June 2023*

- Implemented 4 deep learning networks and 2 classifiers for processing images obtained from telescopes to conduct preliminary binary classification of astronomical objects based on anomaly detection capabilities of neural network trained on heavily imbalanced data sets.
- Built a pipeline for image feature extraction, augmentation, processing, and prediction making to process over 300,000 unclassified image files. Conducted testing and statistical evaluation.
- Resolved problem of research project data sets containing too much bad data and optimized potential target search. improving search time efficiency by over 90%.
- Optimized pipeline resource usage by creating just-in-time data loading – cleaning system to increase memory efficiency and optimize for running on slower machines.