OLIVER TERRELL

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Software Developer | Personal Website | GitHub

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EDUCATION / COURSEWORK

- Carnegie Mellon University
- Mellon College of Science
- B.S. Neuroscience | May 2019

(15-110) Principles of Computing
(03-363) Systems Neuroscience
(85-419) Parallel and Distributed Processing

EXPERIENCE

- **Greenstar Group, Inc. | COO, Co-Founder, Software Developer | Dec. 2020 – Present**
  Co-Founded financial modeling software company (website https://www.greenstargroup.org). We achieved one paying customer in two weeks, progressed to later rounds of venture competitions, and are currently servicing three offices/organizations. Built product from inception through and including deployment and continued support. Utilized Flask web framework to deliver product that automatically scraped financial data from Yahoo Finance, ran it through a quadratic programmer in python, ported to a variety of MplD3 graphs, and rendered results into a LaTeX template for professional use. Resolved cross-machine dependencies via Docker and hosted containers on AWS.

- **Uncommon Core | Software Developer | June 2020 – Dec. 2020**
  Wrote extensive automated testing functions in Selenium that allowed our team to move cleanly and quickly through developmental phase. Developed a MySQL database interface in PHP and Python that maximized modularity of the codebase. Worked on Python package management tools used to automatically flatten namespaces of packages for global use locally. Administrated and deployed Flask services running TensorFlow models using Docker and Kubernetes.

- **Neural Network Encoding | Carnegie Mellon University | Spring 2018**
  A hands-on approach was taken to build and test multiple different artificial intelligence neural networks. The software Lens was used to create various networks that worked with small-batch data sets, trained over varying epochs, with variable numbers of hidden, input, and output units. Understood the basic nature of artificial intelligence and how one can design and program a network for a specific purpose based on novel inputs after training on a standard set.

SKILLS

IBM® SPSS | Data Analysis | Kubernetes | Docker | Neural Networks | Python | PHP | HTML/CSS | Selenium | ML SQL | MySQL | JavaScript | TensorFlow | Scikit-Learn | Google Cloud Services | GitHub (/ghoozie) | pip | Linux | Unix Mac OS | Windows | Zoom | SQLAlchemy | Quadratic Programming | MatPlotLib | NodeJS | D3 | Flask | LaTeX

INTERESTS

- **Lead Author | SQUARE1™ Book | Neuromotor Physical Therapy and Training System | Summer 2019 – Current**
  Authoring textbook "Foundations of Square1™: Real-Time Assessment and Correction of Neuromotor Compensations" Square1 outlines a neuromotor approach to physical therapy involving real-time assessment and correction of perceived weak joint actions and the neuromotor compensations that arise as a result.

- **Winning Team | Entrepreneurship Practicum | Carnegie Mellon University | Fall 2012**
  In an entrepreneurship class taught at Carnegie Mellon by the famed R.F. Culbertson, my team, led by Meera Lakhavani, used various methods to land first place in the class, accruing winnings of over $10,000 cash from an initial stipend of $100 after mergers with other teams. We engaged in various opportunities including, but not limited to, sales, operations, incentivized signups, and delivering presentations both on and off campus.

ATHLETICS

- **Carnegie Mellon University | Varsity Football | Varsity Track & Field**

- **Carnegie Mellon University | President & Founder | Archery Club**