Dany Haddad

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EDUCATION

University of Texas at Austin

Bachelor of Science, High Honors Electrical Engineering May 2015

Master of Science, Electrical Engineering: Decision, Information, and Communications Engineering

Courses: Large-Scale Optimization, Convex Optimization, Data Mining, Stochastic Processes

(Spring 2018:) Natural Language Processing, Large-Scale Learning, Monte Carlo Methods May 2019

WORK EXPERIENCE

University of Texas Austin, TX

Graduate Research Assistant — Intelligent Data Exploration and Analysis Lab August 2017 — Present

- Implementing GPU based real-time multi-object tracking for self-driving cars.

Originate Los Angeles, CA

Software Engineer, Technical Lead March 2016 — June 2017

- Transitioned the data model of a 20 kloc codebase from a schema-less Firebase data-store to a PostgreSQL database utilizing a GraphQL API.
- Developed a scalable and reliable data aggregation backend for a commercial real estate search tool.
- Contributed to Exosphere, an open-source framework for building distributed microservice oriented software projects.
- Volunteered time to be part of the core team that built saywerk.com, a platform enabling women's careers in underrepresented fields.

MPR Associates Alexandria, VA

Electrical Engineer August 2015 — March 2016

- Built a software toolset to interface a 10 MW battery based renewable energy storage facility.
- Analyzed the modes of operation of a fault detection system for nuclear power plants.
- Wrote a software library to help engineers model nuclear power plants and generate simulation parameters for different contingency conditions.

SKILLS

- Proficient in Python, MATLAB and LabVIEW for data analysis.
- Proficient in Javascript (NodeJS), Clojure and Common Lisp.
- Ability to design scalable software architectures.
- More concerned with making sound technological choices than simply going with the most popular one.
- Values of high quality code and automated tests.
- Ability to understand and build on previous engineers' work.
- Self-starter, eternal student, persistent problem solver, highly effective communicator and team member.

INDEPENDENT PROJECTS

- Developing an automated circuit analysis tool.
- Built a melody extraction tool for transcribing polyphonic music.
- Contributor to multiple open source Emacs Lisp tools.
- Contributor to Tertestrial, a software testing framework.
- Contributor to core.matrix.complex, a Clojure library for working with complex valued matrices.
- Contributor to StumpWM, written in Common Lisp.