Dany Haddad

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EDUCATION

University of Texas at Austin
Bachelor of Science, High Honors Electrical Engineering ***(GPA: 3.87)*** May 2015
Relevant Courses: Large-Scale Optimization, Applied Linear Algebra, Real-Time DSP, Automatic Control, Probability and Random Processes

EXPERIENCE

Originate Los Angeles, CA
Software Engineer March 2016 — Present

- Technical lead for commercialsearch.com
  - Lead the development of the Extract, Transform and Load pipline (ETL) for fetching, cleaning and indexing data from several external APIs and in various data formats
  - Transitioned the project from using a schemaless data store to a relational database (PostgreSQL)
  - Oversaw the development of the GraphQL backend
- Exosphere-SDK framework for building distributed microservice oriented projects
- Part of the core team volunteering time to build the MVP for SayWerk.com, a platform enabling women's careers in underrepresented fields

MPR Associates Alexandria, VA
Electrical Engineer August 2015 — March 2016

- Developed tools for extracting, cleaning and processing large quantities of data from power systems simulations
- Built a software toolset to interface a 10 MW battery based renewable energy storage facility
- Built a software library to help engineers model nuclear power plants and generate simulation parameters for different contingency conditions
- Using simulation and theoretical analysis, configured and validated the operation of an open phase detection system for nuclear power plants

SKILLS

- Clojure, Javascript (Node.js), Python and Common Lisp for backend development
- `perl`, `sed`, `awk` as well as ni for exploring data sets
- Developing scalable relational DB schemas using database ORMs such as Sequelize
- Developing service oriented web applications
- Writing effective software feature and unit-tests
- Designing REST and GraphQL APIs
- MATLAB and LabVIEW for scientific computations
- DevOps, particularly with AWS services, including Elastic Beanstalk, EC2, S3 and RDS
- Using NoSQL, where appropriate
- Highly motivated, independent and fast learner

INDEPENDENT PROJECTS

- Developing a tool to teach circuit analysis to electrical engineering students
- Melody extraction tool for transcribing polyphonic music
- 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
- Contributor to multiple open source Emacs Lisp tools