Michael Du

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LANGUAGES AND TECHNOLOGIES

- **Proficient:** Ruby, Rails, JavaScript, Node.js, Express, PostgreSQL, SQLite, MongoDB/MongoLab, ActiveRecord, jQuery, HTML5, CSS3, SCSS, Git, Heroku
- **Exposure:** AngularJS, AWS(EC2), Firebase, Redis, Python, C, Matlab, Machine Learning (Neural Networks, Logistic Regression, Gradient Descent)

RECENT PROJECTS

Software Engineer | Kanluqu | live | code   2016

Platform for prospective college students to share successful applications to better understand the admissions process.

- Built RESTful Ruby on Rails API with 5 controllers to handle user and application management functionality.
- Architected PostgreSQL DB schema with ActiveRecord to construct 10 tables with polymorphic associations to enable favoriting of specific applications and essays.
- Designed the front-end utilizing JavaScript, jQuery, HTML5 and SCSS to maintain UI/UX centered around ease of navigation and clean presentation of large amounts of content.
- Incorporated HPE Haven On Demand API to score sentiment of 100% of essays uploaded to the Rails backend.

Software Engineer | T.A.P. (Thermo Aggregation Project) | live | code   2016

Human temperature collection system designed to warn public health officials of potential infectious disease outbreaks.

- Configured routes on Ruby on Rails server to parse and filter strings (Regex) to identify human temperatures.
- Layered real-time temperature data displayed using Highchart.js on top of GPS map from MapBox API.
- Constructed Arduino device using wi-fi shield, thermometer sensor, and barometer sensor built on the microcontroller and programmed using C to live-feed temperature data to Rails backend.
- Followed scrum agile development on a team of 5 engineers with daily standups and Git for version control.

Software Engineer | Mortar-Analytics | live | code   2015

CRM dashboard for small and mid sized business owners to easily track data analytics of their financial transactions.

- Developed the data submission system with JavaScript and jQuery with PaperClip to enable image upload.
- Engineered business transaction table with sorting and filtering functions using JavaScript and Tablesorter.
- Deployed Rails API to Heroku and stored invoice information and images in a PostgreSQL database.
- Utilized JavaScript, D3.js library, and jQuery to design metrics graphs for profit analysis and breakdown.

PROFESSIONAL EXPERIENCE

COO + Co-Founder | Transcend Education | Shenzhen, CA   2011 - 2016

- Founded education startup in Shenzhen from concept to 12 full-time employees, leading operations in generating over $1 million in annual revenue without outside investment.
- Developed 6-month long educational program for students which included character assessment, college counseling, writing workshops, and interview coaching.
- Led hiring initiative and recruited 6 consultants and 3 board members from the most competitive universities (top 15 schools worldwide), and provided them comprehensive training.
- Taught 20 intensive courses to 300+ students in AP Economics, AP Statistics, and storytelling.

Franchise Operations Manager | Basfood Services Inc. | Los Angeles, CA   2009 - 2010

- Managed and trained team of 100+ employees across 4 El Pollo Loco franchises to effectively lower labor and food cost by ~10% through implementing new practices and procedures.
- Prepared financial statements, and reconciled cash flow statements between bank, office, and stores.

EDUCATION

University of California, Los Angeles, *B.A. Business Economics*   2009