

# Sean Helvey

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<https://github.com/seanhelvey>

## Education

New York University | MS Computer Science

- Focus on Databases and Natural Language Processing
- Internship as Financial Software Developer at Bloomberg
- Capstone thermostat application project with EnergyHub

Cal Poly San Luis Obispo | BS Business Administration

- Dual Concentration in Financial Management and Accounting
- Internship in Fixed Income Research at Allegiance Capital
- Managed endowment with Student Managed Portfolio Project

## Activities

Front Range Elm | Organizer (2016-Present)

Boulder JS | Organizer (2014-2016)

## Experience

Galvanize | Instructor / Sr. Full Stack Developer (2017-Present)

- Enterprise Instructor **Java, Spring, Spring Boot, Pivotal Cloud Foundry**
- Delivered Cloud Native Essentials to engineers at Dish Network
- Trained experienced developers in React and Redux part-time course

Web Development Instructor **React, Redux, Vue.js, Express, PostgreSQL**

- Lead 8 cohorts and roughly 160 students through the Web Development Immersive
- Expanded and taught JavaScript curriculum for evening courses
- Managed instructor review process as "Campus Captain" for Galvanize Boulder

Pearson | Software Engineer (2016-2017) **Python, Go, MongoDB, Docker, AngularJS, D3.js**

- Cut statistics processing time in half by introducing threading with goroutines
- Created dashboard visualizations displaying histograms used to train machine learning models
- Developed numerous experiments using Jupyter / IPython notebooks and Docker containers

Blue Hook | Founder & CTO (2014-Present)

Helping people build software to solve business problems.

Clients include Rocky Mountain Patent, KPMG, Motili, Hawaiian Airlines, Apollo Mapping, Coroutine, and Flipboard.

Projects:

- Designed and developed a web-based contractor portal
- Lead a team of contractors on a satellite imagery search engine project
- Refactored a full-stack application to allow search result filtering on the front-end
- Trained the principal developer of a consulting partner in Python and Django
- Built thoroughly tested custom AngularJS components and D3.js data visualizations
- Completed an accessibility overhaul removing aXe errors and incorporating Deque feedback
- Maintained an expert network mobile application utilizing local storage and a SQL Lite database
- Developed a locale management project allowing non-technical users to safely modify files

Simple Energy | Software Engineer (2013-2014) **Ember, Python, Django REST Framework, MySQL**

- Ported PHP based application to Django REST Framework and Ember
- Developed badge awarding functionality to engage users with gamification
- Integrated Sailthru API for transactional and marketing email programs

Genscape | Software Engineer (2012-2013) **PHP, PostgreSQL**

- Maintained old PHP/PostgreSQL system and developed new .NET/C#/WPF application
- Parsed the DOM and used regular expressions for extraction and data manipulation

Allianz Global Investors Capital | Equity Trading Analyst (2008-2009) **VBA, Matlab**

- Automated position monitoring with VBA and modeled portfolio risk with Matlab
- Built pricing models for thinly traded equity derivatives based on linear interpolation
- Lead statistical analysis of risk neutral pair trades for absolute return group
- Created economic data analysis system to interpret changes in real-time

Allegiance Capital | Fixed Income Research Associate (2005 Summer Internship, full-time 2006-2007) **Excel**

- Implemented default probability and loss model for Commercial Mortgage Backed Securities (CMBS)
- Lead development of CMBS transaction database for CDO management group
- Monitored CMBS deal flow and tracked spread changes for structured products