

Charles Guo

Software Engineer

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Work Experience

Founder
SeismicArt.com
(2016- 2018)

Established an eCommerce company for convention artists

- Scaled to thousands of daily users

Designed an OWASP-compliant server-side system

- Increased artist signup by 300% by allowing users to scrape Etsy, Storenvy, and Tictail to automatically populate their stores
- Implemented sanitized logging with cycled transports and expressive levels to enable secure debugging
- Improved sales conversion by 50% by implementing a full-text search

Incorporated customer feedback in feature development

- Designed customizable discounts that reflect deals at conventions
- Built a mobile-friendly convention map that connects directly to the marketplace

Skills

Javascript

Strong proficiency in writing clean, destructured Javascript according to Airbnb style
Callback, promise, and async/await control flow management
ECMAScript 2017 with Facebook's Flow-typing

Node.js

REST- Express, associated middleware
GraphQL – Apollo, Relay

Databases

PostgreSQL, Sequelize ORM, Knex query builder, Redis, MongoDB

System Design

Understand implementation of and tradeoffs between cryptographic standards
Automated build systems via Gulp and Docker Compose
Git and semantic version control

Basic Frontend

HTML, CSS, Vue.js

Personal Projects

Don't Repeat Yourself Boilerplate

Designed a server-side boilerplate that automatically implements a matching GraphQL schema along with extensible CRUD given a Sequelize ORM-defined schema. Includes custom Passport auth for Facebook Account-Kit and tests.

GDAX Twitter Trader

Built and deployed a bot that lets users trade cryptocurrency pairs by tweet.

Education

Duke University
Trinity College,
Durham, NC
(2012 – 2016)

Bachelor of Science in Biology
Bachelor of Science in Environmental Science

- GPA: 3.76
- MCAT : 519/528 ; 98th percentile
- SAT: 2380/2400

Misc

President
Psi Upsilon Fraternity
(2014-2015)

Fostered cooperation within the executive team.
Coordinated between the International Office and the chapter.
Represented the fraternity in the larger Duke community and Interfraternity Council.