Brendan Ashby

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Full-stack Senior Software Engineer with a rich experience creating web applications from scratch using a modern technology stack. Self-motivated individual leveraging side-projects to keep up-to-date with the latest technologies. Relishes collaborating with a close-knit team to write clean maintainable code that raises the bar.

Languages

- TypeScript
- Python
- Java
- SQL
- GraphQL
- JavaScript
- Go
- Perl
- SASS
- Protocol Buffers

Technologies

- React / Redux
- Webpack / Babel
- Apollo
- Jest
- Spring
- Node / Express
- PostgreSQL / Oracle
- Kafka
- AWS Lambda / S3
- Event Sourcing

Tooling

- Git
- Jenkins
- DC/OS
- Cypress
- CI / CD
- Docker
- Bitbucket / Jira
- Grafana / Prometheus
- Maven
- Agile / Scrum

Honors

- United States Patent Holder (#6598438)
- Boy Scouts of America Eagle Scout
- Member of Upsilon Pi Epsilon (UPE) Honor Society
- Founder of Athenahealth's LAN Party Club

Master's Thesis

Semantic Driven Data Migration for Predictive Treatment of Major Depressive Disorder
RDF, SPARQL, Python, Protégé, scikit-learn
Rensselaer Polytechnic Institute, Troy, NY
2012 – 2014

Education

Master's Degree in Computer Science
College of Science
Rensselaer Polytechnic Institute, Troy, NY
2012 – 2014

Dual Bachelor's Degree in Computer and Systems Engineering, Computer Science
College of Engineering, College of Science
Minor in Psychology
College of Cognitive Science
Rensselaer Polytechnic Institute, Troy, NY
2008 – 2012

Work Experience

Senior Software Developer   *Athenahealth | Austin | 2018 – 2019*

- Constructed a reusable React scheduling framework replacing bespoke legacy applications with a consistent experience and reducing implementation times for new clients

- Led the design and creation of a backend Apollo GraphQL server to aggregate disparate APIs and streamline the data model for the framework

- Refactored a tagging pipeline on AWS Lambda to enable the construction of complex rules

- Spearheaded a new React/Redux application to allow non-technical users to edit and review tagging rules and jobs

- Designed software and schema for atomic events to facilitate event sourcing between services

- Served as a mentor for new engineers and aided the onboarding process

Software Developer   *Athenahealth | Austin | 2015 – 2018*

- Developed a master patient index composed of patient records de-duplicated using probabilistic demographic matching algorithms

- Pioneered research into contract-based testing (PACT) between services; Shepherded its adoption into multiple product teams

Personal Projects

Healthfull   *Austin | 2017 – 2018*

- Founded and incorporated a grocery e-commerce and fulfillment start-up targeting local businesses

- Created a React/Redux front-end for users to create meal plans and a Node back-end for searching recipes using trigram fuzzy text searching

- Pitched at Austin meetups to connect with prospective CTOs, expand the core development team, and connect with mentors

EhhWorld   *Austin | 2017 – 2018*

- Architected a two-dimensional world generator in Go which leverages elevation and moisture maps seeded by fractal noise to derive biomes

- Networked a browser-based WebGL client to communicate with the world generator using WebSockets and protocol buffers