

John Joseph Sweeney

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Website: jl.io
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EDUCATION

University of Massachusetts Amherst

May 2019

BS Computer Science

Commonwealth Honors College – GPA: 3.78, departmental honors thesis project

Coursework – data structures, functional programming, computer systems, probabilistic reasoning, discrete math, algorithms, databases, web programming, software engineering

University of Massachusetts Amherst (anticipated)

May 2021

MS Computer Science

SKILLS (in order of proficiency)

Languages: Java, Elixir, C#, SQL, JavaScript, HTML/CSS, C, Scala

Software: Linux, Docker, LaTeX, Visual Studio, Git, Microsoft SQL Server, MongoDB

Frameworks: Phoenix, Ecto, React, Webpack, Brunch, Express, Gulp, Handlebars

EXPERIENCE

Charles River Development – Developer Intern

May – August 2017, 2018

- Repaired critical bugs and worked in both C# and Java in large, complex codebases with version control
- Increased test coverage dramatically for localized currency features and benchmarks
- Wrote and fixed automation tests for portfolio manager and performance UI
- Designed and created automated testing infrastructure through a custom continuous integration platform
- Emphasized critical factors and added sorting features to tree-structured performance reporting

O'Shaughnessy Asset Management – Developer Intern

May 2016 – August 2016

- Implemented custom report builder using pivot grids
- Refactored and fixed existing bugs in relationship manager interface
- Migrated interface for portfolio managers to manage account restrictions from Windows forms to MVC
- Presented crucial company asset information using Kendo UI, Microsoft SQL Server, and .NET MVC 4

PROJECTS (selected available on GitHub)

AAUStats.com – Analytics for high school basketball (Elixir/Phoenix/Postgres)

December 2016 – Present

- Design custom charts, graphs, and visualizations for assessing team and player performance
- Established system for importing unreliable data and outputting structured data models to Postgres
- Implemented fully-featured API for accessing structured data using JSON endpoints
- Created interactive, React-based tables for statistical reporting

Flexible Phoenix Deployments – research available on GitHub Gist (text)

February 2018

- Researched and assessed current release strategies for multi-tenant Elixir/Phoenix apps
- Developed flexible solution to managing releases and deployments on a single server
- Capitalized on container technology to eliminate dependencies and version requirements
- Determined strategies for containerized multi-app networking using NGINX containers
- Included support for database migrations, data imports, and other one-time tasks to run in parallel

Footballer – Versatile NFL ranking system (Java/Spark Framework/React)

November 2016

- Synthesized a stable NFL data model and used it to import season data into adaptable Java objects
- Designed and documented a flexible API for manipulating NFL data
- Created an user-friendly object-oriented framework for writing custom ranking algorithms
- Improved functionality with a custom React component utilizing Chart.js for ranking visualizations

Phoenix Blog – Custom blogging engine (Elixir/Phoenix/Postgres)

September 2016

- Architected custom blog using Phoenix web framework for personal publishing use
- Implemented tailored authentication system with logins, sessions, and permissions
- Enhanced usability with syntax highlighting, markdown compilation, real-time previewing, and draft system
- Solidified confidence in codebase by writing comprehensive 83 case test suite

Fastpoll – Concurrent polling platform (React/Meteor)

June 2016

- Created and hosted fast polling service using Meteor and React
- Crafted user experience with interactive, real-time polling results and loading animations
- Augmented reproducible deployment support with containers