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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

December 2020

MS Computer Science

SKILLS (in order of proficiency)

Languages: Java, Elixir, C#, Python, TypeScript, Bash, SQL, JavaScript, HTML/CSS, C Software: Linux, Docker, LaTeX, Visual Studio, Git, Microsoft SQL Server, MongoDB

Frameworks: Phoenix, Ecto, OTP, React, Webpack, Scipy, Numpy, Express

EXPERIENCE

DraftKings – Developer Intern

June – August 2019

- Rearchitected and refactored existing CSV lineup importer for high-value clients from scratch to report better errors and fail gracefully
- Designed new importer to integrate with existing network of microservices with minimum interference
- Reformulated data model to fix existing problems, data reporting errors, and silent bugs
- Provided internal dashboard with flexible views for customer service to quickly evaluate and solve problems for high-value clients

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'Shaugnessy 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