Ryan Thomas Allen

ryanallen.io · github.com/rallen090 · rallen090@gmail.com · (***) ***-****

WORK EXPERIENCE

Applied Predictive Technologies (APT)   New York, NY & Washington, DC
Web-based financial analytics software company. Acquired as indep. subsidiary by Mastercard (2015).
Principal Software Engineer - **Client scalability** product team   *July '18-Present*
- Developing systems for rapidly creating new product instances fueled by Mastercard data

Senior Software Engineer - **Analytics** growth product team   *July '16-July '18*
- Developed a Mastercard data exploration product, the first service fully built upon MC data in APT
- Primarily aided with the 'Calc' engine (C# & SQL) built for high performance aggregations of large financial datasets and algorithmic caching to preserve results efficiently across users and requests

Software Engineer - **Architecture** team   *August '14-July '16*
- Aided development of the micro-service oriented architecture upon which the APT web-platform is built (C# .NET and SQL server-side; HTML, CSS, and Javascript for web)
- Built core applications consumed by all product teams, such as
  - JobQueue - a distributed calculation system for invoking, tracking, and canceling long running in-memory (C# and R) and database (SQL Server) 'jobs' across servers
  - Exceptions - app for reporting, tracking, and alerting of errors throughout the product

McKesson Automation Corporation   Mars, PA
Software Engineering Intern I & II   *Summer '12 & '13*
- Med packaging hardware controller (local .NET web server; hardware control via COM ports)

PERSONAL PROJECTS

Water Cooler Trivia (https://www.watercoolertrivia.com)   Aug. 2017-Present
Co-founder, Engineer (HTML, CSS, JavaScript, C# .NET Core, SQL Server)
- Weekly trivia quizzes for offices (7000+ weekly quiz submissions; 40+ paying companies)
- Web platform for users to submit quizzes, invite co-workers, and view historical leaderboards
- Admin infrastructure for quiz auto-generating and auto-grading and email queueing/tracking

Jukebox (https://www.playjuke.com)   *Jan. 2017*
Co-creator (HTML, CSS, JavaScript, NodeJS, Java for Android, Objective-C for iOS)
- Web platform for collaboratively building and sharing playlists on any device (via Spotify SDK & API)
- Meteor's Blaze framework using NodeJS on server plus native Android & iOS apps; hosted on AWS

Minesweeper Solution Analyzer (github.com/rallen090/MineSweeperAnalyzer)   *Dec. 2016*
Creator (C#, Java, Python, NodeJS)
- Native desktop app for analyzing and visualizing programmatic solutions to the game Minesweeper
- Used as personal interview question for APT candidates tasked to implement a 'solver' algorithm

Web Terminal (http://ryanallen.io - github.com/rallen090/WebTerminal)   *Nov. 2016*
Creator (C# .NET MVC, HTML, CSS, Javascript)
- Web-based command-line terminal implementation (hosted on Azure)
- cd fun :)

EDUCATION

THE UNIVERSITY OF VIRGINIA – SCHOOL OF ENGINEERING AND APPLIED SCIENCE   Charlottesville, VA
Bachelor of Science, Computer Engineering   *May 2014*
Minor in Engineering Business
   GPA: 3.7/4.0

MISSION CRITICAL SKILLS

- StarCraft II - Masters League (since 2013) - http://us.battle.net/sc2/en/profile/429676/1/AceElite/