

Ryan Thomas Allen

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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 (50+ 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/>