RYAN C O'SHEA

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full-stack software engineer °
Boston, MA °
@ryanoshea on GitHub + NuGet °

EXPERIENCE

Toast Boston, MA

Software Engineer II, Employee Cloud Feb. 2020 – Apr. 2020

- Developed a new web app delivering the single most-requested product by Toast's restaurant customers — enabling restaurant managers to pool and equitably redistribute workers' tips according to a configurable policy.
- Contributed to design, implementation, testing, and code review at all levels of Toast's single-page app stack, working closely with UX, PM, and QA from planning through production deployment.
- Helped bring tip pooling from early alpha to nearly feature-complete through a multi-stage preview program with live restaurant customer feedback.
- Laid off in COVID-19-related downsizing following the dramatic contraction of the restaurant industry during the pandemic.
- Stack: React front-end apps backed by RESTful Dropwizard microservices in Java and Amazon DynamoDB, plus expansive Kotlin unit and integration tests. Also leveraged: PostgreSQL, Guice, Swagger, JUnit, Play, Yarn.

PREVIOUS ROLES

Vecna Technologies: *Robotics Firmware Engineering Intern*
- ARM and PIC microcontroller programming in C
- Sensor systems design and circuitry for autonomous robots

Comcast Business: *Product Software Engineering Intern*
- AngularJS, PHP, and Java full-stack web development
- UX design for a prototype X1 set-top box app

iD Tech Camps: *Java Instructor*

Devon Preparatory School: *Java & Computer Animation Instructor*

Composable Analytics Cambridge, MA

Senior Software Engineer Aug. 2018 – Jan. 2020
Software Engineer Aug. 2016 – Aug. 2018

- Owned platform architecture, product development, technical review, deployment, and DevOps (alongside CTO) for Composable's patented web-based enterprise data orchestration platform.
- Designed and implemented high-performance, multithreaded data pipelines enabling users to move, process, analyze, and visualize massive datasets across dozens of data store technologies and third-party APIs.
- Led a 2-engineer team responsible for improving usability through a complete redesign of Composable's user interface, reducing churn and increasing customer engagement.
- Routinely bootstrapped automation and machine learning pipelines with dedicated web apps for 2–3 month pilot programs at prospective clients. Transitioned these into production systems which saved clients millions of dollars per year in operating costs over their previous workflows.
- Replaced ETL systems in client environments with fully-automated Composable workflows, often in a forward-deployed setting.
- Managed and built secure systems dealing with HIPAA-governed Protected Health Information and Personally Identifiable Information.
- Stack: .NET back-end infrastructure in C# backed by SQL Server and Entity Framework. AngularJS single-page apps written in TypeScript and Sass. Also leveraged: WCF, Google Cloud Platform, Microsoft Azure, Gulp, NuGet, ASP.NET.

EDUCATION

Princeton University Princeton, NJ

B.S.E. in Electrical Engineering, Certificate in Computer Science
Honors: Cum Laude; Sigma Xi Research Society

May 2016
GPA: Departmental 3.84 / 4.00,
Overall 3.60 / 4.00

Specialization: Computer Architecture · *Coursework:* Out-of-Order Superscalar Processor Design, Full-stack Web Development, Electrical System Design & Implementation, Sensors & Bus Protocols, Embedded Devices, SBC Programming, Cryptography & Information Security, Circuits, Classical Control, Semiconductor Devices, Algorithms & Data Structures, Systems Programming

TECHNICAL SKILLS

Proficient with:

Back-end & Desktop Software: C#, Java, .NET, Node.js, WCF

Front-end Web Development: TypeScript, JavaScript, React with hooks, AngularJS, Sass, jQuery, NPM, SystemJS, JSPM, Gulp, Bootstrap, HTML5, CSS3

Databases: SQL Server, DynamoDB, Entity Framework, LINQ, PostgreSQL, MongoDB, SQLite

Version Control: Git, Team Foundation Server

Testing: Unit/E2E/Integration tests in JUnit, Mockito, VSTest

Familiar with:

Back-end & Desktop Software: Kotlin, Guice, C, Python, Gradle, Android Java, MATLAB, MIPS & IA-32 Assembly, R, Processing.org, Visual Basic, brief experience with Simulink, C++, and CUDA C++

Front-end Web Development: Service Workers, Progressive Web Apps, WebSockets, Webpack, PHP, WordPress, Drupal