

Drew Wiens – Platform UX Engineer

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Education

- MS Computer Engineering at [Georgia Tech](#), 3.8 GPA, 2015. ([Publications](#))
- BS Computer Engineering at [Washington University in St. Louis](#), 3.77 GPA, 2013.

Skills

Alphabetized: [Ag-Grid](#), [Angular 2-10](#), [Angular CLI](#), [Angular Material](#), [Apollo Client + Server + Federation](#), [Azure DevOps](#), [Azure Pipelines](#), [BitBucket](#), [code review](#), [CSS](#), [Cypress](#), [Electron](#), [Express.js](#), [Git](#), [GitHub Enterprise](#), [Google Cloud Platform](#), [GraphQL](#), [HTML](#), [Jasmine](#), [JavaScript](#), [Jenkins](#), [Jest](#), [Jira](#), [Karma](#), [Linux \(Ubuntu 18.04 & 20.04 - Daily Driver\)](#), [Locl](#), [Matlab](#), [Microsoft Teams](#), [MongoDB](#), [Nest.js](#), [NgRx](#), [Node.js](#), [npm](#), [Nrwl Nx](#), [Postgraphile](#), [PostgreSQL](#), [Promises](#) and [Async/Await](#), [Protractor](#), [pull requests](#), [Python](#), [ReactJS](#), [REST](#), [RxJS](#), [Server Sent Events](#), [TypeScript](#), [Visual Studio Code](#), [Winston](#), [yarn](#).

Experience

[2020 – Present] [Coventor & Lam Research Corporation](#) *FTE via Oasis*

- Angular 10, [Angular Material](#), [NestJS](#), [GraphQL](#), [Apollo Client + Server](#), [Postgraphile](#)
- Created the most complex page of the application: A visual table filtered on the backend by a variable number of Angular Reactive Forms inputs, and the GraphQL API that drives the frontend, including automatic client TypeScript code generation with `graphql-codegen`.
- Code reviews of other developers' pull requests.
- Wrote documentation on how to use the GraphQL API.

[2017 – Present] [Oasis Digital Solutions](#) *Full-Time*

- Completed 5 Angular + Node projects for 2 Fortune 500 corps. and 1 corp. client in 3 industries.
- Gave 4 talks at conferences in Columbia MO, St. Louis, and Chicago, and 5 talks at Meetups.
- Passed Google Cloud Platform Professional Data Engineer exam on first attempt (Nov 2019).

[2019 – 2020] [Elekta](#) *FTE via Oasis*

- Angular 8+, [Angular Material](#) and [ngrx](#) platform to unify the UI of a microservice-based medical system sold to hospitals.
 - Designed and built the front end platform with 1 other FTE from the start.
 - Presented progress to corporate stakeholders and coordinated with teams in Sunnyvale, St. Louis, and the U.K.
 - Wrote a couple dozen wiki pages and README's to document how to develop on platform.
 - Implemented *run-time* i18n (internationalization) and l10n (localization) in CI/CD with Angular 9, [Angular cli](#), and [Locl](#).
 - Sped up CI/CD by 4x (~16 mins → 4 mins) by rewriting Azure Pipelines YAML to parallelize the tasks.

[2018 – 2019] [Lam Research Corporation](#) *FTE via Oasis*

- Created and merged 231 pull requests = 27% of all mainline commits (#2 committer by volume).
- Built a full stack enterprise Angular 6+ and Node 10+ web app start-to-finish and end-to-end with 1 other FTE.
 - Wrote Node/Express backend with RESTful HTTP API and Winston logging.
 - Wrote approx. half of all of the app's features.
 - Wrote an Angular 8+ version of a legacy 6 kLOC VisualC++ desktop app.
 - Extended Bitbucket pipeline YAML & Bash build script.
 - Wrote Jasmine unit tests and Protractor end to end (e2e) tests.
 - Integrated Node/Express backend with Smalltalk HTTP + Server Sent Events server.

- Coordinated API contract with two onsite FTE's in Fremont, CA.

[2018] [PricewaterhouseCoopers](#) *FTE via Oasis*

- Built Node microservices and an internal PwC Angular web app within a large international team that included Oasis.
- Integrated microservices with a half dozen internal RESTful APIs by communicating with several backend teams.

[2017 – 2018] [Lam Research Corporation](#) *FTE via Oasis*

- Created and merged 53 pull requests = 19% of all mainline commits (#3 committer by volume).
- Built a full stack enterprise Angular 5+ and Node 8+ web app start-to-finish with 3 other FTE's.
 - Big data front-end for several existing HTTP API's and a search engine.
 - Wrote the app's backend, a RESTful HTTP API with Express.js and Node.js.
 - Fixed front end bugs in the project's Angular code.
 - Learned Angular, Node, npm, yarn, Express, and REST on the job.

[2013 – 2017] [Georgia Tech](#) *PhD Student*

- Earned [President's Scholarship](#) at Georgia Tech.
- Best grade in ECE 6360 graduate electromagnetics design class taught by Dr. Madhavan Swaminathan (Spring 2014).
- Graduate Teaching Assistant for 2 courses and Graduate Research Assistant in [Inan Research Lab](#) at Georgia Tech.
 - Won a \$50,000 Grant by Children's Healthcare of Atlanta to study joint sounds as biomarkers for juvenile inflammatory diseases.
 - Published 5 journal papers (4 first-author and 4 [IEEE](#) journals) and 6 conference papers (5 first-author).
 - Presented 5 conference talks (1 invited talk) and mentored 8 students (5 undergraduates).
 - Submitted US Patent application materials to Georgia Tech's patent office.

[2015] [NASA White Sands Test Facility](#) *Remote Part-Time During Grad School*

- Implemented new front end features in an existing ASP.NET + SQL Server application.

[2011 – 2012] [Intel Corporation](#) *2 Summer Internships*

- Worked in Atom & SoC Development Group under Sean Baartmans at Jones Farm campus in Hillsboro, OR.
 - Wrote C# for software tools used by Intel and HP engineers for post-silicon validation of Intel Atom processors.
 - Gave two presentations to the business group, and created conference materials on my work.

Conference Talks

- [Full Stack Angular with NestJS at STL DevFest](#) (2019)
- [Angular Drag-and-Drop at WindyCity DevFest](#) (2019)
- [Angular Drag-and-Drop at STL DevFest](#) (2019)
- [TensorFlow.js + Angular at COMO DevFest](#) (2019)

Meetup Talks

[GraphQL: What and Why](#) (2020) ☆ [Machine Learning for Front End Features](#) (2019) ☆ [Angular Reactive Forms](#) (2019) ☆ [Angular Drag-and-Drop](#) (2019) ☆ [RESTful APIs with Loopback 3](#) (2017)

Blog Posts

[Why You Should Try Ubuntu as Your Daily Driver OS](#) (2019) ☆ [Loopback 3, TypeScript, and Custom Connectors](#) (2018) ☆ [Angular Runtime Performance Guide](#) (2017) - Featured on Google Angular blog
 ☆ [How I Learned Angular](#) (2017)