

# Drew Wiens – Front-End Engineer

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Front-End Engineer with 3.5 years of experience in Angular + Node while working at [Oasis](#) for [Coventor](#), [Lam Research Corporation](#), [Elekta](#), and [PricewaterhouseCoopers](#).

## Skills

*Alphabetized; Very Proficient in **Bold**:* [Ag-Grid](#), Agile Development, [Angular 2-10](#), [Angular CLI](#), [Angular Material](#), [Angular Material CDK](#), [Apollo Client + Server + Federation](#), [Async/Await](#), Azure DevOps, [Azure Pipelines](#), Bash, BitBucket, CI/CD, [Code Review](#), [CSS](#), [CSS Flexbox](#), [CSS Grid](#), [Cypress](#), Docker, [Electron.js](#), [Express.js](#), Figma, [Git](#), GitHub Enterprise, Google Cloud Platform (GCP), [GraphQL](#), [HTML](#), [HTML5](#), [HTTP Requests](#), [Jasmine](#), [JavaScript](#), [Jenkins](#), [Jest](#), Jira, [Karma](#), Linux (Ubuntu 18.04 & 20.04 - Daily Driver), [Locl](#), LoopBack 3, Matlab, Microsoft Teams, MongoDB, MySQL, [Nest.js](#), [NgRx](#), [Node.js](#), [npm](#), [npm scripts](#), [Nrwl Nx](#), OpenID Connect, [Postgraphile](#), [PostgreSQL](#), [Promises](#), [Protractor](#), [Pull Requests](#), Python, [ReactJS](#), [Responsive Web Design](#), [REST](#), [RxJS](#), [SCSS](#), [Semantic Versioning \(SemVer\)](#), [Server Sent Events](#), [Technical Documentation](#), [TypeScript](#), [Vega](#), VirtualBox, Visual Studio Code, Web Sockets, [Winston](#), [yarn](#).

## Experience

### [ 2017 – Present ] [Oasis Digital Solutions](#) *Front-End Engineer*

- Completed 5 Angular + Node projects for 2 Fortune 500 corps. and 2 corp. clients 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).

### [ 2020 – Present ] [Coventor & Lam Research Corporation](#) *Front-End Engineer via Oasis*

- Angular 10, [Angular Material](#), [NestJS](#), [GraphQL](#), [NgRx](#), [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.

### [ 2019 – 2020 ] [Elekta](#) *Platform UX Engineer via Oasis*

- Angular 8+, [Angular Material](#) and [ngrx](#) platform to unify the UI of a microservice-based medical system sold to hospitals.
  - Worked on-site at Elekta St. Charles, MO for an Elekta lead UX engineer based in Sunnyvale, CA.
  - Designed and built the front end platform with 1 other FTE from the start.
  - Presented progress to corporate stakeholders and coordinated with teams in 3 cities.
  - 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 pipeline with Angular 9, [Angular cli](#), and [Locl](#).
  - Sped up CI/CD 4x (16 mins → 4 mins) by parallelizing Azure Pipelines YAML tasks.

### [ 2018 – 2019 ] [Lam Research Corporation](#) *Front-End Engineer via Oasis*

- Created and merged 231 pull requests = 27% of all mainline commits (#2 committer by volume).
- Built a full stack Angular 6+ and Node 10+ web app start-to-finish and end-to-end w/ 1 other FTE
  - Wrote Node/Express backend with RESTful HTTP API and Winston logging.
  - Wrote half of all of the app's features.
  - Converted a legacy 6 kLOC VisualC++ desktop app to Angular 8.
  - Wrote 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 2 onsite engineers in Fremont, CA.

#### [ 2018 ] [PricewaterhouseCoopers](#) *Full Stack Engineer via Oasis*

- Wrote Node microservices and Angular web app within a large int'l team including Oasis.
- Integrated microservices with ~1/2 dozen RESTful APIs by working with several backend teams.

#### [ 2017 – 2018 ] [Lam Research Corporation](#) *Front-End Engineer 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](#) and [Cornell University](#) *PhD Student*

- Georgia Tech [President's Scholar](#) (Top 10% of PhD applicants).
- Best grade in Dr. Madhavan Swaminathan's ECE 6360 (graduate EM design) (Spr 2014).
- Graduate Teaching Assistant for 2 courses and Graduate Research Assistant in [Inan Lab](#).
  - 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 papers & 4 [IEEE](#) journals)
  - Published 6 conference papers (5 first-author).
  - Presented 5 conference talks (1 invited talk) and mentored 8 students (5 undergrads).
  - Submitted US Patent application materials (Patent finalized in 2020).

#### [ 2015 ] [NASA White Sands Test Facility](#) *Remote Software Engineer*

- Added front end features & fixed bugs in existing ASP.NET + SQL Server web app remotely during grad school.

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

- Worked for Sean Baartmans in Atom & SoC Dev. Group (Jones Farm 5, Hillsboro, OR)
  - Added features to C# WPF tool for Intel and HP post-silicon validation engineers.
  - Gave 2 presentations to the business group & created materials for a conference.

## 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.

## 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