Drew Wiens – Platform UX Engineer

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Education
- PhD Computer Science at Cornell University, 4.0 GPA, Left. (Main Project)
- MS Electrical & Computer Engineering at Georgia Tech, 3.8 GPA, 2015. (Publications)
- BS Electrical & 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*
- Angular 10, Angular Material, NestJS, GraphQL, Apollo Client + Server, Postgraphile with custom plugins.
- 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 and Node.js projects for 2 Fortune 500 companies and 1 corporate client in 3 industries.
- Gave 4 talks at conferences in Columbia MO, St. Louis, and Chicago, and 5 talks at local Meetups.
- Passed Google Cloud Platform (GCP) Professional Data Engineer exam on first attempt (Nov 2019).

[2017 – Present] **Angular Boot Camp** *Instructor*
- Taught eight 3-day and 4-day 9-to-5 classes as the primary instructor from 2019-2020.
- Co-taught eight other Angular Boot Camp classes from 2017-2020.

[2019 – 2020] **Elekta** *FTE*
- 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 the 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*

- 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*

- Built Node microservices and an internal PwC Angular web app within a large international team.
- Integrated Node microservices with internal enterprise RESTful APIs.

[2017 – 2018]   Lam Research Corporation   *FTE*

- 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.

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)