

Michael Stallings

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Technical (and Soft) Skills

Tech: (Type-compiled, contemporary (**TypescriptS/ES6+**)) **Javascript**. - **Node** and Browser runtimes. - FE Markup / Styling (**React**) - **Python** - **GraphQL** (preferred) and REST - Relational and NoSQL DB's - '**Serverless**' architecture, espc. **AWS (Lambda, DynamoDB, APIGateway, StepFunctions, SQ-NS**, - **laC**, espc. w/ *Serverless* framework, and CloudFormation, incl containerization. Object Oriented and modern Procedural/Functional programming

'Soft': Application **Architecture** and **System Design**, especially as related to web applications: "What are we building? Why that way?". **Communication**, especially as it relates to **curiosity** and desire to learn. **Respect and Empathy**, especially as it's fundamental to the previous points. Presentation/Document creation

Experience

APRIL 2021 - PRESENT

Airbus - Atlanta, GA - Software Engineer

Brought on as a full-stack engineer to a **predictive-maintenance** application, my first months spent narrowly focussed on building a '**predictive trends**' backend (really a microservice as the entire application has multiple 'back-ends'). This API was to receive a front-end query for 'predictive' charts, w/ user auth and permissions forwarded. Planned/wrote the GraphQL schema, the base resolvers, and finally the service layer which would interface w/ and directly query our DynamoDB tables (via DocClient). Data was needed from multiple tables, and had to be combined and formatted into our return *Chart* type before its return to FE. Of course new objectives were added along the way including need for splitting out Non-Airbus, and Airbus data, a 'fallback' auth-permissions service, a requirement to copy and parse-out so-called 'maintenance-advice' which was found on one of the DB models as a giant string of HTML, and at multiple points required my creation of a mock-offline dev environment that I used Lambda, DynamoDB-Local, and other local laC deployments.

More recently my aviation specific knowledge has been called on to liaise with 'early adopter' airlines we're onboarding. I'm working to create/code their 'settings' for the application (what faults and failures they find high, med, low priority, which ones they want 'boosted' or filtered, etc). This has required me to in a very short time address and learn (and actively use) the entire application. This has subsequently required me to learn (mostly by backward-engineering / code-reading) the entire 'main' backend which was created solely by the French innovation team. Along with this I've had to interface with and learn how our **NLP-ML** works, which has brought me into the data science of the application including, Python (PySpark), and into basic diagnostic theory.

APRIL 2017 - APRIL 2021

Inovo / Salesforce-Web Consultant, Atlanta - Engineer / Consultant

Entry into software industry started through contracted (upwork, etc) work at first as primarily a frontend web developer usually solo (combined 'design' and project-lead utilizing a basic React (relying on both Create-React-App and manual **Webpack** builds. Backend, content, and user customization handled through a variety of CMS).

Later studied and began work on **Salesforce** projects including Lightning **Web Components** (An attempt to 'reactify' Salesforce development), server-side templating with Salesforce proprietary Apex language (Java derivative).

Even later, I began work for Inovo Design Agency mainly focussed on a couple of clients who needed a web application, along with a mobile app which I built in **React-Native** (manual, non-expo).

Education

AUGUST 2019 - FEBRUARY 2020

DigitalCrafts Full-Stack Flex Program, Atlanta - Certificate

Invested in myself to re-sharpen my engineering/development skills picked up in the previous years. While React was the main frontend focus, extensive work and training was received on building REST backends (Node / Express). Culminated in my own solo personal project [BeachMe!](#). Although I had already been using React and other front-end tools (Sass, etc). This 'bootcamp' definitely allowed me some great personal connections and exposure to a full-stack approach to application development.

AUGUST 2005 - AUGUST 2010

Georgia State University Atlanta - B.A. Political Science

Accomplishments

Certified Flight Instructor (In progress)

Commercial Pilot License - 2018

Instrument Flying Rating - 2017