ROB STEILBERG

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EDUCATION

Duke University, Durham, NC   2014 – 2018

B.S. Computer Science   Dean's List with Distinction, 3.72 / 4.0

DeNardis Memorial Award   Department of Computer Science

EXPERIENCE

ForeFlight (Boeing)   **Software Development Engineer**, 2021 – present
Austin, TX

- Working with ForeFlight's Directory team to support and improve the JetFuelX platform

Esri   **Software Development Engineer**, 2018 – 2021
Washington, DC

- Rebuilt ArcGIS Hub's obsolete domain resolution service into a scalable microservice with Express
  - Containerized with Docker, built a CI/CD pipeline with Jenkins, and deployed via Helm to Kubernetes
  - Saved Esri approximately $100k in annual server costs via the shutdown of a legacy Rails application
- Implemented a complete UI redesign and CSS refactor of Hub's Ember-built WYSIWYG website editor
- Contributed to Esri's open source, cross-team/platform TypeScript libraries, plus several Ember libraries
- Directly mentored an intern on Hub's backend team during summer 2020; coached several new hires
- Engaged with ArcGIS Hub, Online, and Enterprise customers at the Esri UC and Esri Developer Summit

Intern, summer 2017

- Prototyped an application which templatizes ArcGIS Online mapping applications, making them compatible with any Esri-hosted dataset and decreasing application buildout time by over 85%

Duke Global Health Institute   **Mobile Development Engineer**, summer 2018
Roatán, Honduras

- Principal developer of mVax, an Android application powered by Firebase that records immunizations and generates vaccination reports, which increased vaccine patient throughput at Clinica Esperanza by 50%

SKILLS

Current: JavaScript, Node (Express, Ember, Gatsby), HTML/CSS (Sass, Tailwind), Redis, Docker, Kubernetes/ Helm, Jenkins, Linux; working knowledge of Rust, SQL (Postgres), nginx, AWS, and Elasticsearch

Previous: TypeScript, jQuery, Python, Java/Android, Swift, C/C++, Ruby (Rails), R, Lisp (Racket), MIPS

PERSONAL WORK

roob1090

- Built a full stack pipeline and realtime API with Rust, Python, Express, and Docker for localized ADS-B tracking
  - Hardware layer parses ADS-B signals decoded by dump1090 and then transmits them via WebSocket
  - Server layer aggregates individual flights and enriches them with data from OpenSky and FlightAware
  - Node worker threads continually perform geofencing to sort each flight into a given airspace of interest
  - Hosted at aircraft.robsteilberg.io and powered by a Raspberry Pi on my balcony

INTERESTS

- Aviation; I am a student pilot based out of Potomac Airfield (VKX) currently pursuing a Private Pilot Certificate
- Global health and volunteer work in Latin America, with additional experience in Guayaquil, Ecuador working at an equine therapy rehabilitation center for children with special needs