# ROB STEILBERG

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## EDUCATION

**Duke University**, Durham, NC                                                                                                    2014 – 2018
**B.S. Computer Science** – DeNardis Memorial Award                             Dean's List with Distinction, 3.72 / 4.0

## EXPERIENCE

**ForeFlight, a Boeing Company**                              **Senior Server Developer**, 2021 – present
Austin, TX
- Led the rollout of JetFuelX in ForeFlight Web, triaging complex migration issues and supporting customers
- Designed and implemented a complex architectural migration with zero downtime to support a yet-to-be released in-app greenfield feature

**Esri**                                                                       **Software Development Engineer**, 2018 – 2021
Washington, DC
- Rebuilt ArcGIS Hub's obsolete domain resolution service into a scalable microservice with Express
  - Saved Esri approximately $100k in annual server costs via termination of a legacy Rails application
- Contributed to Esri's open source, cross-team/platform TypeScript libraries, plus several Ember libraries
- Engaged with ArcGIS Hub, Online, and Enterprise customers at the Esri UC and the Esri Developer Summit

                                                                                                                        **Intern**, summer 2017

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

**Clinica Esperanza**                                                                      **Volunteer**, 2018 – present
Roatán, Honduras
- Principal developer of mVax, an Android application powered by Firebase that recorded immunizations and generated vaccination reports, which increased vaccine patient throughput at the clinic by 50%
- Currently spearheading the replacement of the clinic's legacy EMR with a new, internet-agnostic system

## SKILLS

**Current**: Java, JavaScript, Node (Express, Ember, React), HTML/CSS (Sass, Tailwind), Redis, Docker, SQL, Jenkins, Linux; working knowledge of PHP, Rust, Kubernetes/Helm, nginx, AWS, and Elasticsearch
**Previous**: TypeScript, jQuery, Python, 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 apartment's balcony

## INTERESTS
- Aviation, holding a Private Pilot Certificate, ASEL and based out Austin Bergstrom Int'l Airport (KAUS)
- Diving, holding Open Water, Advanced Open Water, Nitrox, and spearfishing diving certifications
- Global health and humanitarian work in Latin America, with additional experience in Guayaquil, Ecuador working at an equine therapy rehabilitation center for children with special needs