ROB STEILBERG

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EDUCATION

Duke University, Durham, NC   2014 – 2018
B.S. Computer Science   Dean's List with Distinction, 3.716 / 4.0

SKILLS

Current: JavaScript, Node (Express, Ember, Gatsby), HTML/CSS (Sass, Tailwind), Redis, Docker, Kubernetes/
      Helm, Jenkins, Raspberry Pi; working knowledge of Rust, SQL (Postgres), nginx, AWS, and Elasticsearch
Previous: TypeScript, jQuery, Python, Java/Android, Swift, C, Ruby (Rails), R, Lisp (Racket), MIPS

EXPERIENCE

Esri, Washington, DC   **Software Development Engineer**, 2018 – present
- Rebuilt ArcGIS Hub's obsolete domain resolution service into a scalable microservice with Express
  - Containerized with Docker and implemented CI/CD with Jenkins; deployed with Helm to Hub's Kubernetes clusters
  - 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; independently coached a new hire on the frontend team throughout 2019
- 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
  - Reduced the time necessary to template new mapping applications for ArcGIS Hub by over 85%

Duke Global Health Institute, Roatán, Honduras   **Mobile Development Engineer**, summer 2018
- Principal developer of mVax, an Android application powered by Firebase that records immunizations and generates vaccination reports in accordance with government specifications
- Completed onsite deployment at a local hospital, subsequently increasing vaccine patient throughput by 50%

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 data decoded by dump1090 and then transmits it 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
- Solo travel; my favorite trips include crossing the continental United States via Amtrak and driving across the islands of Kyushu and Yakushima in Japan