

# Filbert Shi

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## Summary

Full-stack Engineer with a background in aerospace and software engineering, and one year of professional experience designing, developing, and deploying full-stack web applications with intuitive and mobile-responsive user interfaces (UI). Semiprofessional Esports team leader and strategic planner reaching 36th international ranking.

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## Skills

- **Programming Languages:** Typescript, JavaScript, C#, Python, R
  - **Web Development:** Node.js, HTML, CSS, jQuery, Sass, RESTful API
  - **Front End:** Angular, React, Tailwind CSS, Bootstrap
  - **Back End:** PostgreSQL, MongoDB, Redis
  - **Tools:** Git, Apache Subversion (SVN), Yarn, NPM, Docker, Kubernetes
  - **Cloud:** Heroku, Amazon Web Services (AWS), Vercel, Google Cloud Platform (GCP)
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## Experience

**Full Stack Engineer, Eric Adams 2021** ([ericadams2021.com](http://ericadams2021.com)), New York, NY 09/2020 - Present

- Convinced Brooklyn Borough President Eric and his team of my vision for his NYC mayoral campaign website
- Cut initial costs by 100% and monthly costs by 75% by persuading the marketing team to abstain from WordPress with plugins, and instead use a tech stack consisting of Node.js, React, Next.js, and MongoDB
- Initiated and completed documentation for all React components and API endpoints, as well as OPSEC guidelines
- Improved mean and median time spent by 50% and 66% via running A/B tests in collaboration with a data analyst
- Integrated Google Analytics, Tag Manager, and Mailchimp Marketing for data collection and advertising to over 9000+ unique monthly visitors (over +300 visitors per day)
- Ensured accessibility of visitors by applying user persona model and creating three mobile responsive layout widths

**Full Stack Engineer, Festival Advisor** ([festivaladvisor.com](http://festivaladvisor.com)), New York, NY 03/2020 - 12/2020

- Slashed operating cost by 50% by moving to Serverless architecture via AWS S3, CloudFront, and Lambda
- Integrated Contentful (Headless CMS) UI-Extensions to validate data with Spotify's API for editors
- Optimized SEO by finding and addressing deficiencies detected through Google Rich Results Tests
- Designed and presented front-end prototypes in Figma prior to implementation of React components and route
- Migrated 80% of codebase from JavaScript to TypeScript
- Collaborated with a small team in a startup environment to build ambitious and challenging features from scratch

**Technology Coordinator, DreamHack Montreal, Montreal, Quebec** 09/2018 - 12/2018

- Coordinated with volunteers and facilitated implementation of pfSense firewall with a team of network engineers to secure a RFC1918 production network with 0.5 terabit/s internet connection.
  - Assist in testing of node.js and electron.js based application to manage 100+ computers.
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## Education

### Columbia University

Aerospace System Engineering (60 credits)  
Computer Science: Full-Stack Development

New York, NY  
2015 - 2017  
2019

### Bronx Science

Diploma with Honors

New York, NY  
2019