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**LinkedIn:** [linkedin.com/in/adilaasif](https://www.linkedin.com/in/adilaasif)

**GitHub:** [github.com/adilasif](https://github.com/adilasif)

**Site:** [adilasif.com](https://adilasif.com)

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## >LANGUAGES AND TECHNOLOGIES

- **Proficient:** JavaScript (ES6+), React.js, Vue.js, Node.js, Express, Linux, Redis, Git, Heroku, Babel, Azure/Azure Pipelines, HTML5, CSS3, SASS, REST, Server-Sent Events, WebSockets, WCTP, npm, yarn
  - **Exposure:** Python, Java, MSSQL, PostgreSQL, MongoDB, GraphQL, PHP, OpenCV, Nginx, Netlify, Gatsby, Docker
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## >PROFESSIONAL EXPERIENCE

### IHA | Full Stack Developer | Ann Arbor, MI / Remote

January 2019 - Present

- Led the development for greenfield internal medical call center web application including robust analytics, HIPAA-compliant secure messaging, and call and patient status tracking, using Vue.js, Express.js, SSE, MS SQL Server, and CI/CD on Azure Pipelines, serving >500 healthcare providers and >300,000 active patients.
- Mentored team members in modern technologies and modernized engineering processes, spearheading department-wide adoption of version control and git flow, bug tracking and management, Agile methodology, service-oriented architecture, and automated CI/CD, improving average development velocity by ~3x.
- Built HIPAA-compliant medical paging service using Node.js to replace providers' pagers with smartphones, saving the company an estimated ~\$2,000,000 per hospital annually due to communication inefficiencies.

### Freelance | Front End Developer | Olympia, WA

July 2017 - January 2019

- Developed various web and scripting projects for clients as a contractor, mainly under NDA. For example, developed and A/B tested landing page designs for a major hospitality industry conference hosted by Cornell University, improving sign up rates for conference newsletter by over 500%.
  - Switched careers from aviation by teaching myself to code while recovering from a serious accident using Udemy courses, reading online technical documentation, and looking for any and all opportunities to use new-to-me technologies in various projects.
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## >EDUCATION

### Master of Science in Electrical Engineering, University of Colorado, Boulder (part-time student)

Expected 2022

*No undergraduate degree. Yes, I am working on my MS, with no BS!*

### Bachelor of Science in Aviation Operations - Incomplete, Jacksonville University

2014 - 2015

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## >PROJECTS

### Gesture-Controlled Autonomous Drone | Engineer

Ongoing

*Autonomous, medium-endurance, multirotor drone built to learn about flight control and computer vision by implementing gesture recognition and to support photogrammetry.*

- Designed and built adaptable, fully programmable quadcopter with modular payload capability.
- Currently working on programming autonomous flight model using Python, on top of a Raspberry Pi.
- Testing own automatic collision-avoidance behavior implementation using OpenCV to process image frames and draw contours.

### WoWAnalyzer | Contributor

2018

*React application that parses text logs of gameplay data and provides suggestions for improving player performance.*

- Implemented new parser modules to handle peak usage of 145,000 unique visitors, and with 14,000,000 requests within a single month.
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## >LEADERSHIP + AWARDS + MISC

### State Championship Robotics Coach, North Thurston High School

2017

### Licensed Airplane Pilot, FAA

2014

### Full-Ride Scholarship, Navy Reserve Officers' Training Corps

2014

### Aerospace Education Officer, Civil Air Patrol

2013

### Search and Rescue Officer, Civil Air Patrol

2013

### Coordinator, Lions Club International

2012