

# Pranish Adhikari

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## EDUCATION

**Virginia Polytechnic Institute and State University (Virginia Tech)**

*Bachelor of Science, Computer Science*

*Blacksburg, VA*

*Dean's List: Fall 2022 | Expected Graduation: December 2024*

## EXPERIENCE

**CACI – Workforce Development Program**

*Sterling, VA*

*Full-Stack Developer Intern*

*May 2024 – August 2024*

- Led the development of a full-stack signal simulator web application across the company's testing departments, leading to a **30%** increase in testing efficiency and a **significant** reduction in operational costs.
- Integrated live data streaming for real-time signal visualization and upgraded the codebase to use Flask, Angular, and Docker, resulting in increased UI functionality and system performance.
- Selected among the top **5%** of interns to present project progress to company Vice Presidents, resulting in application deployment.

*Software Developer/Researcher*

*August 2023 - Present*

- Spearheaded research in signal processing, communications, and software-defined radios, driving innovation in real-time data acquisition and analysis for advanced technology applications.
- Developed and implemented a 4-element direction-finding array (operating at 915 MHz) and a robust signal processing system using Software Defined Radios and GNU Radio, significantly improving drone detection and tracking accuracy.

**Boeing – Pamplin Technology Commercialization Fellowship**

*Blacksburg, VA*

*Director of Operations*

*July 2024 – Present*

- Aided the COO in overseeing all operational activities, ensuring efficient management and execution of fellowship initiatives.
- Coordinated with various departments to drive strategic goals, enhance member engagement, and foster a collaborative environment.

*Solutions Architect*

*August 2023 – July 2024*

- Developed an RNN model for Air Traffic Control revolutionizing air space management by identifying potential hotspots and suggesting alternative routes resulting in enhanced safety and reduction in cost.
- Collaborated in a cross-functional team by leveraging strengths in problem-solving, critical thinking and adaptability through comprehensive data analysis and efficient strategy adjustments.

**Diggeridoos at Virginia Tech – Engineering Design Team**

*Blacksburg, VA*

*Software Developer*

*January 2023 - Present*

- Engineered an intuitive, React-based GUI for a Tunnel Boring Machine, enabling real-time sensor monitoring and manual machine control for enhanced operational efficiency.
- Collaborated with cross-functional teams to integrate front-end and back-end systems, driving improvements in system functionality and data communication. Selected from 400 applicants and ranked 3<sup>rd</sup> in The Boring Company's Not-a-Boring Competition.

## PERSONAL PROJECTS

**Evergreen Visions**

*July 2023 – Present*

*Founder/COO*

- Established Evergreen Visions, a niche social media marketing agency catering to chiropractors.
- Oversaw the agency's website development, domain registration, and implementation of security measures, while also driving client engagement through cold calls, strategic emails, and personalized in-person meetings.
- Managed remote employees, which boosted conversion rates by **65%** and contributed to the creation of innovative marketing strategies.

**Signal Simulator – CACI**

*May 2024 – August 2024*

- Optimized application functionality, reducing GET request time from 1 minute to milliseconds by implementing efficient data structures.
- Implemented live data streaming for real-time signal visualization and modernized the codebase, enhancing UI functionality and boosting system performance.
- Upgraded codebase from Python 2 to Python 3 and system from Rhel 7 to Rhel 8. Reconfigured GitLab pipelines and Docker container to validate Python 3 and Rhel 8 syntax, improving build status monitoring and enhancing debugging capabilities.

## SKILLS & CERTIFICATIONS

**Technical:** PyTorch, Web Development, CAD, SQL, Microsoft Office, SEO, CRM, Web Analytics, Flask, Docker

**Programming Languages:** Java, Python, C, Arduino, MATLAB, HTML, JavaScript, CSS, React, Angular

**Professional:** Collaboration, Adaptability, Leadership, Critical Thinking, Problem Solving, Detail-Oriented, Proactive

**Certifications:** AWS Cloud Practitioner Essentials (In Progress)