Devin Morgan

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https://www.devin-morgan-portfolio.com | www.linkedin.com/in/devin-morgan-76764231a

Education

Old Dominion University Norfolk, VA

Bachelor of Science in Computer Science *Graduated May 2025*

Experience

Software Developer June 2024 – Present

Virginia Space Grant Consortium *600 Butler Farm Rd Hampton, VA*

- Developed cross-platform **Web/Desktop App** designed to control small drones with **Next.js, Electron.js, and Tauri**
- Deployed https://www.dronecodinglabs.com by hosting it on **Vercel** to make this **software** accessible
- Accomplished **real-time drone control** and **live video streaming** using **FFMPEG** and **UDP packet transmission**
- This has been used to introduce over **+1000** students to coding

Technology Analyst Sep. 2023 – May 2025

ODU Procurement Services *5115 Hampton Blvd Norfolk, VA*

- Analyzed over **+150** equipment units per month and resolved over **+20** tech support tickets per month
- Assessing a diverse range of equipment, including **CPUs, laptops, monitors**, and other technology

VICEROY Cybersecurity Research Program Nov. 2024 – May 2025

Department of Defense (DoD) Funded | Old Dominion University *5115 Hampton Blvd Norfolk, VA*

- Worked on **AI geospatial** pipeline (**Python/PyTorch**) that auto-aligns **100k+** dash-cam frames to satellite tiles.
- Cut preprocessing time **40%** via automated **frame extraction** and **cKDTree** satellite-tile indexing.
- Achieved sub-**15m** median geolocation error by training an **AI Vision Transformer** with **Haversine loss**.

Projects

Genesis AI | *React Native, Expo, Firebase, Subabase, REST API, AI Integration, Docker* January 2025 – Present

- Developed an advanced **AI-driven** chatbot app integrating **APIs**, including **OpenAI**, **Claude**, **Gemini**, **Grok**, and more
- Improved backend **security** and **speed** by **120%** by implementing **Redis caching** with **JWT authentication**
- Used by over **+26,000** users and has generated over **+150,000** chat requests and over **+5,000** images
- Many features such as **real-time web search**, **AI generated images**, and **file uploads**

Plasma Puck Unlimited | *Unity, C#, iOS, Android, Game Development* August 2023 – Present

- Developed a fast-paced mobile hockey game with over **+22,000** downloads
- Recognized and featured multiple times by the **iOS App Store**, with a **4.8/5-star** rating overall

Certifications

Drone Flying Certification - July 2024

AWS Certified Cloud Practitioner - April 2025

Technical Skills

Languages: JavaScript/TypeScript, HTML/CSS, Python, Java, C, C++, C#, SQL (Postgres), Dart, Bash/Shell, Rust

Frameworks & Libraries: React, Node.js, Flask, JUnit, Next.js, Material-UI, Electron.js, Flutter, Tauri, Express.js, Tailwind

Developer Tools: Git, Firebase, Supabase, Vercel, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, NumPy, Matplotlib, AWS, Amazon Web Services, Postman, Redis, FFmpeg, Unity Services, CI/CD, RESTful APIs, JIRA, Jest