

ALEXANDER WINKLER

 [Portfolio](#)

 Alexwinkler1@icloud.com

Education

Eastern Florida State

May. 2021 – Aug. 2025

Bachelor of Applied Science in Software Development

Melbourne, FL

- Degree GPA 4.0

Experience

Police Officer

Jan. 2022 – Jan. 2023

City of Rockledge

Rockledge, FL

- Led emergency responses, demonstrating the ability to take charge and produce detailed precise reports to ensure thorough documentation.
- Clearly conveyed information during high-pressure situations, ensuring accurate decision-making and precise reporting.

Teaching Assistant

Jan. 2025 – May 2025

Android App Development

Melbourne, FL

- Assisted students in debugging code in Kotlin and provided advice on mobile app programming projects and assignments.

Projects

Amazon Employee Search Tool | *Vercel, Next.js, FastAPI, Python, SQLite, [Link](#)*

- Alerted AWS to active compromised data of **high-level** employees, resulting in immediate security actions.
- Developed a **full-stack** solution hosted on Vercel with Next.js integrated with FastAPI providing real-time querying capabilities for **1.2M+** breach records.
- Implemented a **serverless** backend using SQLite and Python to optimize data access, allowing fast querying with zero infrastructure maintenance.

Ethical Scraper | *Python, SQLite [Link](#)*

- Developed a custom session handler with requests that dynamically updated authentication cookies to **bypass Cloudflare's BIC** and maintain uninterrupted data collection.
- Aggregated user posts containing sensitive PII from malicious forums, storing **10k+** unique records into SQL database.
- Parsed 1k+ pages using **BeautifulSoup** and **regex**, extracting usernames and sensitive data.

Weather Satellite | *Python, React, Javascript, Git Pages, HTML/CSS [Link](#)*

- Fulfilled the positions of **PM** and **Tech Lead** by managing a team of 3 developers and guiding from initial requirements to debugging.
- Redesigned a Python/Tkinter desktop app into a scalable React.js frontend with **OpenWeather API** integration and full mobile compatibility.

UAV Specs Explorer | *React, Javascript, Git Pages, CSS/HTML [Link](#)*

- Leveraged **Wikimedia API** to aggregate and parse technical specifications of military drones and satellites into structured datasets.
- Capable of searching **13,000+** drones and retrieving **15+** specifications per query.

Portfolio | *React, Javascript, HTML/CSS, Git Pages [Link](#)*

- Personal portfolio site in React with mobile compatibility and dynamic **Particle.js** background.

Technical Skills

Languages: Python, Java, C++, HTML/CSS, JavaScript, SQL, Kotlin

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, NetBeans, SQLite, MongoDB, Git

Technologies/Frameworks: Vercel, GitHub, React, React.js