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, Python, SQLite, React, Javascript* [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 React and Python, 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