


# ALEXANDER WINKLER

 [Portfolio](#)

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## Education

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### Eastern Florida State

May. 2021 – Aug. 2025

*Bachelor of Applied Science in Software Development*

*Melbourne, FL*

- Degree GPA 4.0

## Experience

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### 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*

- Provided one-on-one support to two classmates throughout the semester with Android Studio setup, Kotlin debugging, and mobile app development.
- Assisted with eight Android projects, helping both students achieve final grades of A through consistent technical guidance.

## Projects

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

- Identified compromised data affecting thousands of senior and executive level Amazon employees, directly prompting a **AWS** security response.
- Engineered a scalable **full-stack** application on Vercel using **Next.js** and **FastAPI**, enabling real-time querying of a breach database containing email addresses and phone numbers for over 1.2 million Amazon employees
- Implemented a fully serverless backend using Python and SQLite to handle over **1.2 million** records with zero infrastructure maintenance, reducing operational overhead, then revamped by integrating **Amazon RDS** using MySQL.

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

- Achieved **95%** accuracy parsing 1,000+ pages at 50 pages per minute, extracting sensitive PII from multiple malicious forums.
- Developed a custom Python session handler to dynamically update authentication cookies and bypass Cloudflare's **BIC** anti-bot protections, enabling uninterrupted scraping.
- Leveraged BeautifulSoup to extract 10,000+ records, writing them to an integrated **SQLite** database for optimized storage and fast querying.

### 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](#)*

- Developed a React-based search tool to query 13,000+ military drones, dynamically retrieving technical specifications in real-time from the **Wikimedia API**.
- Optimized search to return 15+ specifications per query in under **500ms**

## Technical Skills

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**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