Alexander Winkler

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Education

Georgia Institute of Technology   Jan. 2026 – Dec. 2027
Masters of Computer Science

Eastern Florida State   May. 2021 – Aug. 2025
Bachelors 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*
- 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

Amazon Employee Exposure Engine | *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 **10.2 million** records with zero infrastructure maintenance, reducing operational overhead, then revamped by integrating **Amazon RDS** using MySQL.

Threat Actor OSINT Harvester | *Python, SQLite* Link
- Achieved **95%** accuracy scraping 1,000+ pages at 50 pages/min, extracting **10,000+** PII records (emails, SSNs, phone numbers) from high-risk forums like Doxbin and SwatKitty
- Built a custom Python session handler that dynamically rotated authentication cookies to bypass **Cloudflare BIC** anti-bot protections, enabling uninterrupted data collection
- Used BeautifulSoup to parse and normalize data into a SQLite database, enabling efficient querying and threat actor activity analysis

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

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