

Alan A. Ceden0

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Software Engineer | Full-Stack Developer | AI & Machine Learning Enthusiast

Results-driven computer science graduate experienced in Java, Python, and full-stack development, with a strong background in object-oriented programming, algorithms, and data-driven software design. Passionate about building scalable applications, applying machine-learning methods, and contributing to agile engineering teams focused on product impact and performance

EDUCATION

Vassar College | Poughkeepsie, New York – B.S. in Computer Science, May 2025

- o **Concentrations:** Software Development, Artificial Intelligence, Machine Learning, Web Development
- o **Relevant Coursework:** Data Structures & Algorithms, Foundations of Computer Science, Software Design, Computer Organization, Theory of Computation, Analysis of Algorithms, Compilers, Operating Systems

WORK EXPERIENCE

Software Developer – REALGT | Fort Myers, Florida

Jan 2021 - Aug 2021

- Engineered and deployed multiple Java-based software solutions leveraging OOP, recursion, and modular design to automate data workflows, improving processing efficiency by 25%
- Developed a rule-based AI system enhancing decision-logic accuracy and adaptability
- Integrated Agile collaboration and Git workflows, cutting merge conflicts and boosting feature delivery 20%
- Partnered with peers to test and refactor codebases for scalability and maintainability

Associate Head of Recording Data – Overtime | Fort Myers, Florida

Dec 2020 – Aug 2021

- Led analytics for a national sports media brand with 2M+ viewers across TikTok, Instagram, and ESPN
- Optimized delivery pipelines via automation, reducing turnaround 30% and raising engagement 40%
- Built KPI dashboards and data pipelines improving content strategy decisions
- Coordinated cross-functional publishing to ensure accuracy and timeliness

TECHNICAL PROJECTS

Pre-Registration Scheduling Application | Java, Data Structures, Algorithms, Git

Aug 2023 – Dec 2023

- Designed and developed a Java-based scheduling platform to automate student course registration and detect time conflicts in real-time
- Implemented efficient hashmaps and array-based algorithms to reduce scheduling errors to zero
- Enhanced software reliability through testing, error handling, and validation, improving stability and user experience

Flash App (Android Application) | Android Studio, Firebase, Java, GitHub

Aug 2024 – Dec 2024

- Built and deployed a mobile Android application tracking speed, GPS location, and travel time with the Android Location API
- Integrated Firebase Realtime Database for real-time leaderboard updates serving 100+ users
- Managed Git/GitHub branching and version control to resolve conflicts efficiently in a 2-person team

Smart Resume Analyzer & Optimizer | Python, NLP, spaCy, AI, Machine Learning

Jun 2025 – Aug 2025

- Developed an NLP-powered resume analysis tool using spaCy to evaluate job description alignment and provide keyword optimization recommendations
- Achieved 90% accuracy in keyword relevance testing, significantly improving match scores for targeted job roles
- Developed modular CLI application using best practices for scalable, maintainable code

Certifications

- **CS50's Introduction to Artificial Intelligence with Python** (HarvardX)
- **Introduction to Generative AI** (Google Cloud)
- **Building Systems with the ChatGPT API** (DeepLearning.AI)
- **Intro to Machine Learning** (Kaggle)

TECHNICAL SKILLS/LANGUAGES

Languages: Java, Python, C++, C, OCaml, HTML, CSS, Javascript

Frameworks/Libraries: Pandas, Scikit-learn, Firebase

Tools: Android Studio, IntelliJ, VSCode, Git, Linux

Other: English, Spanish

ACTIVITIES AND LEADERSHIP

Vassar Varsity Men's Basketball (2021–2023) • VC++ Computer Science Club (2023–2025) • ColorStack (2024–2025)