

Alan A. Ceden0

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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%

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%
- Collaborated with engineering, media, and marketing teams to ensure data reliability and workflow optimization

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

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

Midas Core - Event-Driven Financial Data Platform | React, Spring Boot, Spring Kafka, SQL, H2, Java

Oct 2025

- Developed a core banking microservice using Spring Boot and Kafka integration to simulate JPMorgan's real-time financial data systems and transaction processing
- Built and tested REST APIs and SQL schema to handle high-volume financial transaction data efficiently and integrated an H2 in-memory database for data persistence and system validation
- Debugged and optimized financial logic to ensure data integrity and strengthen enterprise-level backend architecture

Personal Portfolio Website | HTML, CSS, JavaScript, React, GitHub

Aug 2025 – Present

- Designed and deployed a responsive full-stack portfolio site to showcase software projects and analytics
- Implemented dynamic API integrations and responsive UI/UX features to enhance visitor engagement and accessibility
- Leveraged React components for scalable front-end development

TECHNICAL SKILLS

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

Frameworks/Libraries: Spring Boot, Spring Kafka, RESTful APIs, Pandas, Scikit-learn, React

Databases/Tools: Android Studio, IntelliJ, VSCode, Git, Linux, Firebase, SQL, H2(In-Memory), JPA

Other: English, Spanish

CERTIFICATIONS & ACTIVITIES

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*) • JPMorgan Software Engineering Job Simulation (*Forage*)

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