Matt Cadena

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Summary

Ambitious Information Systems senior seeking a software engineering role, bringing creativity and technical proficiency to a dynamic team

EDUCATION

Carnegie Mellon University, Pittsburgh, PA

May 2026

Bachelor of Science in Information Systems Minors in Computer Science and Artificial Intelligence Current GPA: 3.88/4.00

Divine Child High School, Dearborn, MI

May 2022

High School Diploma

GPA: 4.69/4.00

Relevant Coursework

Application Design and Development, IS Software Development Project, Intro to Computer Systems, Parallel and Sequential Data Structures & Algorithms, Intro to Machine Learning, Intro to Deep Learning

SKILLS

Languages: JavaScript, Python, C, Ruby, Standard ML, SQL, HTML, CSS

Tools & Libraries: Git, React, Jest, PostgreSQL, MongoDB, PyTorch, GitHub Actions, GCP, AWS, LaTeX, Max/MSP

Experience

Nextdoor, San Francisco, CA

May 2025 - August 2025

Software Engineer Intern

- Worked on backend features to personalize notifications for millions of users daily, optimizing delivery pipelines and user-targeting logic
- Implemented a change in comment ranking for local news emails, increasing click-through rate by 10% and weekly active users from iOS emails by 1%

Ford Motor Company, Dearborn, MI

May 2024 - August 2024

Software Engineer Intern

- Developed an internal Call Center Agent tool using React, featuring advanced search functionality that displays article results, replacing an outdated system
- Eliminated 30-second timer discrepancy in Lean Coffee application, ensuring seamless experience across clients
- Mentored new interns, reducing their time to productivity from three days to one by creating a comprehensive onboarding guide and providing personalized guidance

Projects

Dynamic Memory Allocator (Email for Access)

C, Memory Management

• Implemented a 64-bit implicit free-list memory allocator with segregated free lists for CMU's 15-213 course, maintaining 16-byte alignment and coalescing free blocks to minimize fragmentation

RNN Language Model with Self-Attention (Email for Access)

PyTorch, Transformer Architecture

• Built an autoregressive RNN language model enhanced with scaled dot-product self-attention, implemented in PyTorch, to predict next-token probabilities on TinyStories

NCAA ATHLETICS: MEN'S SOCCER

Leadership Group, Class Leader: facilitated monthly open discussions among other class leaders and coaches, representing views and concerns of classmates in order to foster success and growth both on and off the field Soft skills: navigating a demanding athletics schedule at a rigorous university has cultivated skills in attention to detail, time management, and organizational proficiency