Erik Peterson

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EDUCATION

Bachelor of Science, Computer Science at Dartmouth College   **Hanover, NH**
Honors: 4 citations for meritorious academic performance   *Graduation Date: Jun 2027*
Relevant Coursework: Discrete Math, Deep Learning, Data Structures and Algorithms, Computer Vision, iOS Development

WORK EXPERIENCE

SignPact   **Remote**
Founder & CTO   *Mar 2025 - Present*
- Selected for Y Combinator in-person interview, raised pre-seed $2 million valuation with $5K+ ARR
- Engineered mutli-agent contract generation model with memory preservation, outperforms traditional models by 60%
- Developed iOS app in Swift and Objective-C for beta users. Developed App Clips for easy signing on mobile devices
- Designed RESTful APIs for enterprise integration, implemented JWT auth for enterprise security with SQL database

Code Championship   **Eden Prairie, MN**
Software Engineer Intern   *Jun 2024 - Present*
- Developed strongly-typed website using Typescript, Zod, Next.js, resulting in a 40% improvement in speed vs prior site
- Optimized games through implementing efficient algorithms and data structures. Reduced CPU usage by ~55%

Dartmouth College   **Hanover, NH**
Teaching Assistant   *Mar 2024 - Present*
- Guided students through implementing site scraping, indexing and querying to create working search engine in C
- 1 of 3 TAs responsible for grading Deep Learning exams; reviewed students' results in extra review session
- Led review session on probability, graph theory; developed black box, hidden Markov model for interactive final

PROJECT EXPERIENCE

Bluetooth Low Energy Exploit   **Hanover, NH**
Research Project   *Jun 2025 - Sep 2025*
- Engineered Linux dashboard, displays select app data, power info, and other personal info from nearby Apple devices
- Chained with IEEE 802.11 exploits to crash targeted network-device connections, and reveal MAC addresses
- Developed mobile application that sends and receives encrypted BLE messages, mitigating risk exploited in project

BiteShare   **Minneapolis, MN**
Influencer Marketing for Restaurants   *Dec 2024 - Aug 2025*
- Built iOS app using Expo, used App Store Connect to serve 500+ MAU and combined influencer reach of 150k followers
- Designed robust backend architecture handling $4k+ in payment and payouts for restaurants and influencers
- Developed scalable coupon redemption system processing location-based marketing campaigns for 12 SMB restaurants

courseme.ai   **Hanover, NH**
AI Course Review Website   *Jun 2024 - Jun 2025*
- Created Dartmouth's most-used course selection tool used by ~80% of the student body with ~3.5k monthly active users
- Fine-tuned a Llama 3.1 8B model using NVIDIA NIM to provide an AI response to users' questions trained on course data
- Developed a Flask-based Python NLP model to match course/professor combinations, lowering chat-bot costs by 70%
- Used Docker and Google Cloud SDK to deploy a cloud-based scraper to automate data fetching and email notifications

MemeMe   **Hanover, NH**
Social Media App   *Feb 2024 - Jun 2024*
- Developed & published Storyboard and SwiftUI app using App Store Connect, winning TuckLab People's Choice Award

EXTRACURRICULARS

Dartmouth Investing & Philanthropy Program   **Hanover, NH**
Equity Analyst   *Sep 2023 - Present*
- Secured a top 5 placement out of 200+ freshman teams in the 2024 Buy the DIPP Stock Pitch Competition
- Compiled detailed financial models and investment theses for 10+ different stocks, averaging ~15% returns

Dartmouth Student Government   **Hanover, NH**
Senator   *May 2024 - Jun 2025*
- Conducted large-scale data collection and surveying among 60% of students, achieved 20% improvement in response rate
- Cleaned and analyzed response data using NLP BART model to prioritize high quality responses of student metrics YoY
- Collaborated with Dartmouth ITC as head of Dartmouth Council on Computing, reducing student-reported issues by 15%

SKILLS

Languages: Swift (5 yrs), Java (5 yrs), Python (4 yrs), C (2 yrs), SQL, TypeScript, JavaScript

Frameworks/Tools: Next.js, React Native, Docker, Google Cloud SDK, Flask, RESTful APIs

Fluent: English, Spanish