

Samuel Peter

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EDUCATION

Dartmouth College

Sept. 2021 – June 2025

- B.A. in Computer Science
- GPA: 3.8/ 4.0, College Honor List
- Relevant Coursework: Digital Electronics, Embedded Systems, Human Computer Interaction, Machine Learning & Statistical Analysis, Network Sciences & Graph Neural Networks, Qualitative Data Analysis, Generative AI

Tuck School of Business

June 2022 – Aug. 2022

- One of 100 students from colleges across the United States selected to participate in a business program focusing on strategy, business operations, corporate finance, accounting, and marketing disciplines

Awards and Honors:

- **Three Citations for Academic Excellence** (2023) for unusual talents, dependability, initiative, resourcefulness, and other meritorious characteristics that are not indicated adequately by academic grades
- Nominated for **Emerging Leaders Award** (2022) for positively impacting Dartmouth's Pan Asian community

WORK EXPERIENCE

Dartmouth College

Jan. 2023 – Present

Teaching Assistant, Embedded Systems Engineering

- Leveraged advanced microcontroller expertise to **create optimized firmware for the Arduino Uno and STM32 Nucleo-64 board**, facilitating seamless code import and enhancement for integrated circuit and IoT projects
- Engineered a proprietary solar tracker software package that **improved solar cell energy capture by 20%** through real-time optimization, supporting development of subsequent Dartmouth ENGS 28 coursework
- Supported curriculum delivery and presented in sections on microcontrollers and communication protocols

Imprivata

June 2024 – Sept. 2024

DevOps Engineering Intern

- Integrated essential developer tools (AWS, ArgoCD, Azure, GitHub, Jira, K8, OpsGenie, Terraform) into a cohesive software catalog on Port, improving operational efficiency and **reducing time-to-deployment by 30%**
- Developed Python scripts to **automate service tracking** across testing environments within **GitHub CI/CD pipelines**, enhancing deployment reliability by identifying and addressing pipeline failures in real time

Moonbeam

June 2023 – Sept. 2023

Software Engineering Intern

- Created a highly interoperable transcription pipeline by integrating numerous AWS resources (S3, EC2, Lambda, CloudWatch) seamlessly to **automatically generate and store transcript files** when streams end
- Deployed a MongoDB NoSQL database alongside Swagger-JSDocs using AWS Elastic Beanstalk, **automating API documentation generation** and enhancing developer and user engagement with the API

PROJECTS AND CAMPUS INVOLVEMENT

SPLICE Project

Nov. 2024 – Present

Research Assistant

- Collaborated with Ph.D. student Chixiang Wang to develop a knowledge base and ground truth dataset for a privacy-focused LLM based Q&A assistant, enhancing user understanding of privacy practices in smart homes

Dartmouth Sports Analytics

Jan. 2024 – Present

Lead Data Engineer

- Leveraged data analytics and machine learning to assess fixture congestion and injury impacts, while developing predictions for final standings and team performances with over 85% accuracy

LEADERSHIP

Dartmouth College

Sept. 2022 – Present

Resident Assistant/Undergraduate Advisor and Senior Academic Mentor

- House Council Treasurer: Oversee financial planning and expenses to support community initiatives and events
- Mentoring 60 undergraduates, offering academic and career guidance while supervising dormitory
- Selected by the Dean's Office to provide high-level academic support and enhance student support services

CERTIFICATIONS, SKILLS, AND INTERESTS

Certifications: SAP Technical Consulting (2023), SQL for Data Science (2023)

Technical Skills: Java, Python, MATLAB, C, SQL, NoSQL, Pandas, NumPy, Verilog, Git, AWS, Microsoft Office

Interests: Investing, Football, Lionel Messi, Classics Literature, Poetry, Films, Photography, Tennis, Cooking