

# Sean Cavalieri

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## EDUCATION

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### Cornell University, College of Engineering

Ithaca, NY

Candidate for Bachelor of Science • Cumulative GPA: 4.1

Expected May 2025

*Intended Major: Computer Science; Minor: Business*

- CS: Analysis of Algorithms, Computer Systems, Functional Programming; Next Semester: NLP, ML, OS
- Math: Discrete Math, Linear Algebra, Engineering Data Science, Probability, Multivariable Calculus
- Other: Physics Mechanics, Physics E&M, General Chemistry, Psychology, Entrepreneurship, Finance

### Head-Royce School

Oakland, CA

Valedictorian (1/95) • Weighted GPA: 4.60 • Unweighted GPA: 3.97 • ACT: 36

August 2008 - June 2021

## WORK EXPERIENCE

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### Salesforce 2023 Futureforce Intern

San Francisco, CA

*Software Engineering Intern • Bring Your Own Model Team (Salesforce Einstein)*

May 2023 - August 2023

- Host LLMs in AWS SageMaker; Automate benchmarking; Create demo interface for Salesforce LLMs
- Migrate NLP model APIs from MetaMind (acquired company) to Salesforce's internal ML platform

### Salesforce 2022 Futureforce Intern

San Francisco, CA

*Software Engineering Intern • Machine Learning Engineering Team (Salesforce Einstein)*

May 2022 - August 2022

- Optimize for 34% chat transcript preprocessing speedup; Research multilingual NLP; Expand command line tools
- Present my projects to all of Service Einstein; Finalist in intern pitch competition; Panelist for Executive Speaker

### Software Engineer, Eradani Inc.

Berkeley, CA

*Part-time: 8-20 hrs/wk*

January 2021 - January 2022

- Code API layers to connect IBM i machines to modern web interfaces; JavaScript, TypeScript, PureScript, SQL
- Present technical demos for customer webinars; Function programming for core product development

## STUDENT ORGANIZATIONS

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### Cornell Autonomous Underwater Vehicles (CUAUV)

Ithaca, NY

*Software Sub-team Lead • Social Chair*

October 2021 - Present

- Deploy team's first machine learning vision system with yolov5 models tuned with transference learning techniques
- Construct full ML pipeline for data collection, data processing, multi-user tagging, and straightforward training
- Design and implement sequential precondition and postcondition based autonomous missions and vision modules

### Phi Gamma Nu Professional Business Fraternity

Ithaca, NY

*Executive Board: Director of Communications*

February 2022 - Present

- Manage website, social media outreach, Instagram takeovers, and recruitment materials; Weekly leadership meetings
- Present Farm-to-table blockchain business pitch, Starbucks PM logistics presentation, and Comcast DCF Stock Pitch
- Host resume review community events, inter-fraternity charity poker tournament, and full brotherhood social events

## PROJECTS

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### Coding and CAD

Ithaca, NY

*Personal Projects and Course Final Projects*

October 2020 – Present

- OCaml poker game; C++ OS Shell; Bayesian Spam Classifier; Swift CreationsAR iPhone App (4.7 stars)
- Design and 3D print vintage car parts, clock escapements, and Rubik's cubes in Fusion360 on a Lulzbot Mini

## SKILLS & INTERESTS

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- **Proficient:** Python, Java, JavaScript, C, C++, Go, PureScript & OCaml Functional Programming, Swift; AWS SageMaker; Git/GitHub; NumPy, Pandas, Scikit-learn, Matplotlib; Node.js, Express.js; Autodesk Fusion360
- **Familiar:** TensorFlow, PyTorch, SQL, MIPS; Linux (Arch, Kali, Ubuntu); Java Spring; ARKit, RealityKit, SwiftUI
- **Certifications/Awards:** Coursera Deep Learning Specialization, HP CodeWars National Champion 2020
- **Interests/Clubs:** Latin (6yrs), Ski Club, Running Club, Cornell Footvolley Club, Intramural Soccer
- **Fun Facts:** I've gone Skydiving and taken Glass Blowing and Black Smithing classes