

JACK KEANE

Vail, CO · (617) 817-9957 · john.f.keane.22@dartmouth.edu
[linkedin.com/in/jack-keane-co](https://www.linkedin.com/in/jack-keane-co) · github.com/jakeane · [portfolio.url](#)

EDUCATION

Dartmouth College, Hanover, NH

June 2022

Bachelor of Arts, Major in Computer Science, Minor in Quantitative Social Sciences

GPA 3.71/4.0

Relevant Coursework: Algorithms, Software Design and Implementation, Problem Solving via Object-Oriented Programming, Discrete Mathematics, Smartphone Programming, Full-Stack Web Development, Machine Learning, Deep Learning, Artificial Intelligence

Honors: College Honor List 2020-2021 (Third Honor Group)

Academic Merit Citation: Machine Learning, Full-Stack Web Development, Artificial Intelligence, Data Visualization

WORK EXPERIENCE

Digital Applied Learning and Innovation (DALI) Lab, Hanover, NH

January 2021-Present

Software Engineer, Mentor

- Collaborated with 5-6 person teams of developers, designers, and project managers to design and build full-stack projects for clients over 10-week terms in an on-campus startup incubator using TypeScript, React, Express, and MongoDB.
- Mentored new DALI developers through one-on-one meetings to help them master technologies used in DALI as well as develop best software engineering practices.
- Recent project: Worked with startup BetMate to develop an online platform to spectate and wager on chess matches; architected the backend services to broadcast chess matches, set betting odds, and process wagers.

Bank of America, Pennington, NJ

June 2021-August 2021

Software Engineer Intern

- Worked with the Global Technology and Operations line of business to improve enrollment workflows for investment solutions.
- Developed a C# program to automate the generation and distribution of an enrollment failure report, which occurred twice daily, saving 10 hours of manual work each week.
- Coordinated with other engineers to ensure the automated reports covered all possible scenarios.

Geisel School of Medicine at Dartmouth, Hanover, NH

June 2020-June 2021

Undergraduate Research Assistant

- Performed research focused on the development and testing of a mental health treatment chatbot to treat anxiety and depressive disorder with mixed-methods research, which is aimed to lower access barriers for treating mental health.
- Architected the application infrastructure, comprising of a Flutter mobile application, a chatbot service using ParlAI, a FastAPI and TensorFlow machine learning service, and a Firebase database. Used AWS for deployment of services.
- Spearheaded the training of the chatbot through curating data and scheduling training scripts with Torque on high performance computing clusters. Assessed trained chatbot quality through quantitative and qualitative metrics.

Dartmouth College, Hanover, NH

March 2021-June 2021

Research Assistant

- Collaborated with Professor V.S. Subrahmanian to design a new course in the computer science department for reinforcement learning.
- Consolidated material from existing university courses and research in the field to gain a strong understanding about reinforcement learning and its applications, which led to quality advice about course pacing and material.
- Designed assignments and projects aimed to help students build intuition about various reinforcement learning concepts and algorithms.

Dartmouth College, Hanover, NH

September 2020-March 2021

Teaching Assistant

- Assisted in a machine learning course for 60 graduate and undergraduate students.
- Guided students through basic machine learning algorithms for classification, regression, and clustering on a conceptual level as well as an implementation level using Python and scikit-learn.
- Administered office hour sessions to help students in problem-solving and debugging through assignments.

SKILLS & INTERESTS

Languages: TypeScript, Python, JavaScript, HTML, CSS, R, C#, Dart, C, Bash, Java

Frameworks and Libraries: React, Redux, Express, Jupyter, scikit-learn, NumPy, pandas, PyTorch, React Native, ggplot2, TensorFlow, Flutter, Firebase, Webpack, Jest, FastAPI

Tools: Git, ZenHub, Linux, Docker, MongoDB, AWS (EC2, ECR, ECS, Lambda), Firebase, Heroku, Torque, Figma, Slack

Additional Interests: Skiing, Fantasy Football, Space, Traveling