

JAEYOUNG (JASON) PAK

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SKILLS

Languages (in order of proficiency): Java, Javascript, HTML/CSS, C, C#, Python, Bash, Rails

Frameworks (in order of proficiency): Git, ReactJS, React Native, Node.js, Unity, AWS, Android Studio

EDUCATION

Dartmouth College

Hanover, NH | Sep 2020 – June 2024

Bachelor of Arts, Computer Science and Music

GPA: 3.99 / 4.0

- **Honors:** Neukom Institute for Computational Science Scholar, Rufus Choate Scholar (Top 5% Honors), Academic Citation for Meritorious Performance (x2 Recipient), DIFUSE Data Science Lab Grant Recipient
- **Coursework:** Software Design & Implementation, Full-Stack Web Development, Algorithms, Discrete Mathematics, Problem Solving via Object Oriented Programming, Design Thinking, Foundations of Applied CS, AR/VR Development

EXPERIENCE

Capital One

McLean, VA | Jun 2023 – Aug 2023

Incoming Software Engineering Intern

MathWorks

Natick, MA | Jan 2023 – Mar 2023

Incoming Engineering Development Group Intern

Digital Applied Learning and Innovation (DALI) Lab

Hanover, NH | Sep 2021 – Present

Software Engineer & Dev Mentor

- Delivered software products for clients under **10-week deadlines**, working **15+ hours/week** while taking courses as a developer for Dartmouth's tech-entrepreneurial program
- Built a video-calling app in **React Native** where users can anonymize their voice during mental health coaching sessions
- Built a full-stack web application using **React & MongoDB** to help ranchers monitor cattle weight during calving cycles
- Learned **Ruby on Rails** to step in and debug the codebase for a behind-schedule launch of a sexual violence prevention program to be used by **1,500+** incoming freshmen
- Promoted to **Mentor** immediately following my first project in the lab — now I work as the **lead developer** on projects, mentor new members, communicate development updates to the project partners, and review new member applications

Dartmouth CS Department

Hanover, NH | Mar 2021 – Mar 2022

Teaching Assistant for CS-10: Object-Oriented Programming

- Led office hours/recitation periods for a class of **150+ students** to **debug code** and answer questions about coding concepts
- Graded assignments and exams by providing valuable feedback that encourages time and memory efficient code

Vitalize Inc.

Remote | Jun 2021 – Dec 2021

Full-Stack Developer

- Developed the first **public beta** of a wellness app tailored to healthcare professionals by learning **React-Native**
- Built a backend **API server** using **Node.js, Express, and MongoDB** to handle CRUD calls for app functionality
- Reduced server load by using **Amazon S3** to store all files uploaded by users in the app's group messaging feature
- Built an analytics webpage using **React** that allows the company to observe how users interact with the app's features

PERSONAL PROJECTS

Doodlegram | <https://github.com/JY2452/doodlegram-FE>

- Full-stack social media site built with **mongoDB, Express, React, and Node.js** for creating and sharing doodles with friends

AR Drum Set | <https://github.com/JY2452/AR-Drumset>

- Virtual drum built with **Unity, C#, and Vuforia SDK** that uses **Augmented Reality** to record and save one's own drum tracks

Minesweeper | <https://github.com/JY2452/minesweeper>

- Minesweeper clone built in **Java** with full functionality and new features such as sound effects, storing high scores, etc.

Bot-thoven | <https://github.com/JY2452/bot-thoven> | Nominated for 2021 Hackaday Prize – "Redefine Robots"

- **Xylophone-playing robot** built using the **Arduino** platform that can perform any desired musical tune

ADDITIONAL INTERESTS

- **Viola Player of 11 years** – Participant of Music Study Abroad Program in London, Performed at the Kennedy Center & on ABC-7's Good Morning Washington, Full-Scholarship Participant of the National Symphony Orchestra's Summer Institute