

# JAEYOUNG (JASON) PAK

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## SKILLS

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

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

## EDUCATION

### Dartmouth College

Hanover, NH | Sep 2020 – June 2024

*Bachelor of Arts, Computer Science and Music*

**GPA: 3.98 / 4.0**

- **Honors:** Neukom Institute for Computational Science Scholar, Rufus Choate Scholar (Top 5%), Academic Citation for Meritorious Performance
- **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

### Thomas Jefferson High School for Science and Technology

Alexandria, VA | Sep 2016 – Jun 2020

*Advanced Studies Diploma*

**GPA: 4.44 / 4.0**

## EXPERIENCE

### 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 – Present

*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>

- Built a **full-stack social media site** from scratch using **React** where users can create and share doodles with other users
- Developed a CRUD **API server** using **Node.js, Express, and mongoDB** to fetch and store user data in a database
- Reduced server load by using **Amazon S3** to store the image files of the doodles created by users

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

- Built a Minesweeper clone in Java from scratch with full functionality (right-click to flag, different levels, sound effects, etc.)
- Wrote a function to store and sort user scores in a text file to display the best solve times on a high scores page
- **Reproduced the Minesweeper expansion algorithm** by recursively checking neighboring tiles during gameplay

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

- **Self-taught Arduino programming** to build a **xylophone-playing robot** that can perform any desired tune
- Wrote a program that controls the rotation of servomotors so that the xylophone keys can be struck at different volume levels, sensitivities, and articulations
- Shared the project resources to an online repository of hardware projects and reached over a **thousand views**

## 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