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, AR/VR Development, Problem Solving via Object Oriented Programming, Design Thinking, Foundations of Applied CS

EXPERIENCE

MathWorks   Natick, MA | **Jan 2023 – Mar 2023**
Engineering Development Group Intern

- Worked on projects as part of the Design Automation Core UI development team

Digital Applied Learning and Innovation (DALI) Lab   Hanover, NH | **Sep 2021 – Present**
Software Engineer & Development 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 Care   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 users to create and share virtual doodles

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 create personal drum tracks

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

- Minesweeper clone built in **Java** with features such as sound effects, game levels, and storing high scores

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

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

ADDITIONAL INTERESTS

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