

Seo Hyun Jeon

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EDUCATION

University of California, Berkeley

Expected Graduation: May 2022 | GPA: 3.69

Majors: Computer Science & Data Science

Relevant Coursework: Data Structures, Computer Architecture/Machine Structures, Artificial Intelligence, Database Systems, Information Systems and Devices, Computer Security, Computer Graphics, Natural Language Processing

WORK EXPERIENCE

Skye (coachskye.com)

July 2021 – Present

Software Engineer Intern

Remote

- Developing MVP web/mobile platform with 2 factor authentication, Zoom and Stripe integration using React
- Developing recommendation engine to match clients to life coaches or advisors based on user data/surveys

Algopear (Formerly PushStash)

June 2020 – October 2020

Software Engineer Intern

Remote

- Developed interactive web application with React to display information for stocks in users' watchlists
- Used HubSpot and SendGrid APIs to fully add newsletter feature to frontend and backend for all users
- Improved market search, allowing for users to search by business name, description, or sector
- Reference: Lakeisha Turner, CTO (lakeisha@algopear.com)

UC Berkeley Data 8 (Foundations of Data Science) Course Staff

Jan 2021 – May 2021

Academic Intern/Lab Assistant

Remote

- Assist lead TAs in weekly lab logistics (check off students, troubleshoot agenda)
- Answered student questions and provided assistance in completing assignments on data/table manipulation, etc

SKILLS

Languages: Java, Python, C, C++, SQL, HTML, CSS, JavaScript | Korean (fluent), French (proficient)

Tools: Git, Gitlab, React, PostgreSQL, Pandas, NumPy, Adobe Photoshop, Adobe Illustrator

PROJECTS

Noted: Hands-free note taking application using Wit.ai to transcribe speech, detect keywords and summarize spoken text. Uses Matplotlib for mathematical output and Node.js for web framework.

PathTracer (C++): Implements ray-tracing of meshes with BVH tree and adaptive sampling acceleration. Can render meshes that have diffuse, reflective, refractive, and microfacet surface material type

Mandelbrot (C): Implements the Mandelbrot function and translates the result into an image using color mapping input and writes to an output .ppm file that can then be viewed as an infinite animation

Classify (Python): Uses non-linear regression to train neural network to classify digits and identify languages.

Ghostbusters (Python): Pacman AI that uses value iteration, approximate Q-learning, dynamic Bayes nets, and joint particle filter observation to train itself to find and defeat invisible ghosts in maze

Graphs (Java): Java library package for manipulation and traversal of both directed and undirected graphs. Client programs use package to implement minimal version of GNU Make and A* search for shortest path

ACTIVITIES & INTERESTS

Columbia University Build Lab

June 2021 – Present

- Design and build MVPs for start-ups lead by Columbia Business School Masters students

Alpha Phi Omega

January 2019 – Present

Executive Committee Historian, Webmaster

Community Service Fraternity

- Completed 100+ hours of community service between April 2019 to March 2020
- Manage bug fixes, member databases, and backup data on servers on current website

UC Berkeley Pioneers in Engineering

January 2019 – January 2020

Frontend UI/UX Staff

Nonprofit Robotics Organization

- Designed and helped program user interfaces for high school robotics competition hosted by organization
- Scoreboard UI: displays time left in robotics match, keeps track of score, indicates game states/plays in action

Interests: Drawing, freelance translation, sewing, bullet journaling, designing stickers/merchandise