

David Jeseung Ha



Education

Vanderbilt University, Nashville TN

August, 2019 - May, 2023

Bachelor's of Science — Computer Science, Mathematics

Relevant Courses: Intermediate Software Design, Operating Systems, Programming Languages, Algorithms, Web Based Systems Architecture, Principles of Software Engineering, Artificial Intelligence, Scalable Microservices

Skills

Languages	TypeScript/Javascript, Python, Java, C/C++, HTML/CSS, SQL, NoSQL
Libraries/Frameworks	React, Redux, Vite, Node, Express, Next, FastAPI, Flask, Spring Boot
Other	Git, Linux/Unix, Docker, Figma, Cloud, Bash, Testing, CI/CD, API's

Experience

Software Development Engineer Intern — APD Mitchell Cloud Repair

Enlyte — San Diego, CA

May 2022 — Oct 2022

- Built a microservice for internal tooling that deletes EMS scanned jobs with Spring Boot & Reactive Programming. Documented code using Swagger UI & Confluence and load tested with JMeter to optimize microservice.
- Increased code coverage for a microservice that gets all repair jobs of vehicles by 15% using JUnit 5.
- Attended daily scrum meetings, updating my progress as well as assisting team members with tasks.

Intermediate Software Design TA — Team Lead Grader

Vanderbilt University — Nashville, TN

Jan 2021 — May 2022

- Co-led the HW team and ensured timely grading of assignments, quizzes, midterms, and finals.
- Provided weekly office hours on C++ and Software Design Patterns, assisting around 20 students weekly.

TradEd - E-commerce Mobile App

Vanderbilt University — Nashville, TN

May 2021 — August 2021

- Led a development team for a startup aiming to facilitate commerce between college students.
- Implemented 10+ front-end screens using React Native consistent with the UI on Marvel.
- Showcased initial version of the app functionality to exec members and handed off code to other students.

Projects

Path Finding Visualizer

2023

- Craft visualized pathways on an $m \times n$ board with custom walls for algorithmic exploration using React.
- Implemented pathfinding algorithms (BFS, DFS, Dijkstra's, and A*) in Python with FastAPI.
- Integrated a CI/CD Pipeline that is triggered on every pull and push to main branch using Github Actions to format code and test frontend & backend functionalities.
- Technologies: Next, Typescript, React, Tailwind, Shadcn/ui, FastAPI, Python, Vercel, Yaml, Pytest, Cypress

Genie Bar

2023

- Ai-Saas application utilizing models from OpenAi and Replicate to generate data from user's prompts.
- Implemented Stripe checkout session for users to subscribe to the pro plan for unlimited generations.
- Technologies: Next, Typescript, Zustand, Clerk, Prisma, MySQL, Tailwind, Shadcn/ui, Crisp, Vercel

Rent Homes

2023

- Airbnb clone where users can post, reserve, and favorite listings w/ Google, Github, and Email Authentication.
- Utilized the Leaflet API to display a map with pins for locations of listings and React-Date-Range to display a calendar where users can reserve listings. Hosted the images of listings on the cloud through Cloudinary.
- Technologies: Next, Typescript, Zustand, NextAuth, Prisma, MongoDB, Tailwind, Vercel

Musica Lover

2022

- Visualized a user's most played song and artists using the Spotify API with authorization code flow.
- Sorted tracks in their playlists based on different moods using Spotify's Audio Features Analysis.
- Technologies: React, Vite, Node, Express, Styled Components, AWS EC2

Certifications

JPMorgan Forage Software Engineering Experience

2021