

# David Jeseung Ha

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## Education

**Vanderbilt University, Nashville TN** August, 2019 - May, 2023

**Bachelor's of Science — Computer Science, Mathematics** GPA: 3.68/4

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

## Skills

<b>Languages</b>	Java, JavaScript, TypeScript, C++, Python, HTML/CSS, C, SQL, NoSQL
<b>Libraries/Frameworks</b>	React, Redux, Spring Boot, Node, Express, Vite, Next, Prisma, MongoDB
<b>Other</b>	Git, Docker, AWS, ORM, Firebase, Figma, Tailwind, React Query, TRPC

## Experience

**Software Development Engineer Intern — APD Mitchell Cloud Repair**

**Enlyte — San Diego, CA** May 2022 — Oct 2022

- Developed a Spring Boot microservice using the MVC pattern with reactive programming with Project Reactor, achieving 100% code coverage.
- Documented REST endpoints using Swagger UI and load tested with JMeter to optimize microservice and eliminate bottlenecks.
- Boosted code coverage by 15% using JUnit for a microservice retrieving all repair jobs of vehicles from the SQL database.

**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.
- Conducted weekly office hours and assisted around 20 students weekly with debugging their programs.

## Projects

**Global Scholars** 2023 — Present

- Collaborated with a team of 6 to create a forum for college students to view and post study abroad reviews.
- Utilized the MapLibre API to display a map with pins for all the study abroad programs in our database.
- Designed web pages based on Figma wireframes with a focus on responsive design with Tailwind, resulting in a 25% decrease in bounce rate.
- Stack: React, Redux, Vite, Node, Express, MongoDB, Tailwind, Yup, AWS EC2

**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.
- Stack: React, Vite, Node, Express, Styled Components, AWS EC2

**Davey Cards** 2022

- Created a website where users can play Solitaire with Github OAuth 2.0 or Email Authentication.
- Stack: Mongo, Mongoose, Joi, Express, React, Node, Webpack, Bootstrap, AWS EC2

**PickUp** 2022

- Developed a website that allowed Vanderbilt students to post pickup games for other students to join with chat functionality.
- Signed users in with Google Authentication where they can add pickup events into their Google Calender.
- Used CI/CD workflow using Github and Vercel to easily deploy and make changes to the website.
- Stack: Next, Next Auth, React, Tailwind, TRPC, Prisma, Planetscale, ChatEngine, Cypress, Vercel Serverless

## Activities

Vanderbilt Men's Volleyball Club, Vandy Justice Through Code