

# Dushan Lee

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## EDUCATION

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### University of California, San Diego | La Jolla, CA

*Bachelor of Science in Biochemistry, Minors in Psychology and Political Science*

**Graduated: June 2021**

GPA: 3.65/4.00

### Hack Reactor 16-Week Full-Stack Software Engineering Bootcamp | Remote

**Graduated: October 2025**

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Databases, Web Development

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, TypeScript, SQL, HTML, CSS

**Technologies:** React, FastAPI, PostgreSQL, Docker, Docker Compose, Tailwind CSS, Git, GitHub, GitLab, MinIO, Render

**Tools:** Vitest, React Testing Library, Chrome DevTools, VS Code, Figma

## EXPERIENCE

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### Hack Reactor | Remote

**June 2025 - October 2025**

*Software Engineering Fellow*

- Completed over 600 hours of full-stack training in Python, JavaScript, React, SQL, and FastAPI in a 16-week immersive program.
- Developed over five full-stack applications using Git and GitLab with pair programming and code reviews.
- Applied professional engineering workflows, including Agile sprint planning, automated CI pipelines in GitLab, and cloud deployment on Render for team and capstone projects.

## PROJECTS

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### Flavorgram | Python, FastAPI, React, PostgreSQL, TypeScript

**October 2025**

- Collaborated with four teammates to build Flavorgram as a capstone project, a full-stack recipe sharing platform with social feeds, visual recipe cards, and user ratings and comments using a React frontend and FastAPI backend.
- Designed and implemented REST APIs and optimized PostgreSQL schemas to support scalable user data, recipes, and interactions with strong referential integrity.
- Integrated MinIO (S3 compatible object storage) for image uploads and media hosting, and containerized backend services using Docker Compose for consistent local development and cloud deployment.
- Implemented Agile sprint workflows with pair programming and Git based version control, and set up GitLab CI pipelines to automate testing and builds using Vitest and React Testing Library.
- Served as Architecture Owner by defining repository structure, branching strategy, and environment configuration to maintain consistency and resolve cross-team integration issues.

### Standard Universal Badminton Rating (SUBR) | Python, FastAPI, React, PostgreSQL, TypeScript

**December 2025**

- Built a full-stack web application to track badminton matches and compute player ratings using a custom Elo-based algorithm inspired by DUPR and UTR ranking systems.
- Implemented backend services in FastAPI to process match results, update player ratings, and persist relational data in PostgreSQL with normalized schemas for players, matches, and ratings.
- Developed interactive React dashboards to visualize player rankings, match history, and rating changes over time.
- Engineered a flexible rating model supporting singles and doubles matches, win probability calculations, and rating volatility to improve fairness and competitive accuracy.

### Notes & Tasks App | Python, FastAPI, React, PostgreSQL, TypeScript

**August 2025**

- Developed a full-stack productivity application with a responsive React interface supporting note creation, task tracking, search, and completion workflows.
- Implemented REST APIs in FastAPI to handle CRUD operations, user data persistence, and task state management backed by PostgreSQL, including keyword-based search and filtering by status, date, and content.
- Structured relational database schemas and query logic to ensure reliable data storage, efficient access patterns, and fast retrieval of notes and tasks.