

# Hsin Tung



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HsinTung.info

## Technical Skills

### Front-End:

Javascript ES6+ | TypeScript | React.js  
Bootstrap | Styled-Components  
jQuery | HTML/CSS | Webpack | Babel

### Back-End:

Node.js | Express | PostgreSQL  
MySQL | MongoDB | AWS  
NGINX | Mongoose | Python

### Other:

Git | Mocha/Chai | Jest/Enzyme  
Loader.io | New Relic | K6

## Education

### Hack Reactor | 2019-2020

Advanced Full-Stack Software  
Engineering Immersive

### University of California, Davis |

2017

Economics B.A.  
Psychology B.A.  
Statistics Minor

## Projects

### Wandur | *Lodging Reservation Service*

Backend developer for reviews microservice in an lodging-booking application

- Optimized PostgreSQL and Cassandra databases each containing over 50 million products by decreasing all CRUD operations to < 20ms
- Stress-tested and benchmarked Cassandra database before and after deployment to identify bottlenecks in query performance and optimization opportunities
- Horizontally scaled service with five AWS EC2 instances behind a NGINX Load Balancer to reach > 1200 RPS, ~160 ms latency, and 0% error rate

### VacanSee | *Real Estate Rental Service*

Frontend developer for photo gallery microservice in an apartment rental application

- Developed an interactive front-end photo gallery microservice utilizing Javascript and React in a service oriented architecture
- Optimized Google PageSpeed Insight score for static assets served through AWS S3
- Architected and deployed the microservice using AWS EC2 and Express reverse proxy server that handled routing to multiple APIs

### YouNote | *Productivity App*

Full-stack developer for a notetaking companion app for Youtube videos

- Developed a full-stack app using Mongo, React, Express, and Node that integrates in-browser note-taking and video player
- Implemented responsive and interactive functionalities in the form of notepads, description, tags, and more with React Bootstrap and Styled Components
- Architected and deployed the microservice using AWS EC2 and Express reverse proxy server that handled routing to multiple APIs

## Experience

### Assistant Instructor | *San Francisco, Hack Reactor | 03/2020 - Present*

- Provide mentorship to 100+ junior engineers in modern full-stack web development technologies, algorithms and data structures, databases, and CS fundamentals
- Conduct mock technical and behavioral interviews for current students and alumni to practice algorithms, white-boarding, and communication
- Collaborate with curriculum coordinators in pinpointing areas of strengths and weaknesses and fostering student growth across the board

### Subject Instructor | *Taichung, Wagar International School | 2018 - 2019*

- Facilitated and produced teaching material for grade 7-12 math, psychology, and economics courses
- Coordinated with faculty on writing school-wide report for WASC accreditation approval
- Eased transition and onboarding process for incoming instructors and restructured the hiring process
- Oversaw, coordinated and communicated with students and parents of designated homeroom grade