

James Cao <Full Stack Web Developer | Software Engineer | Entrepreneur/>

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TECHNICAL SKILLS

Frontend: React.js, Redux, Thunk, JavaScript, HTML5, CSS3. **Backend:** Node.js, Express, SQL, Sequelize, SQLite, PostgreSQL, Python, Flask, SQLAlchemy. **Tools:** Docker, AWS S3, Socket.IO, Postman, Mocha, Chai, Git, GitHub, Deploy on Render.com, OAuth. **Mobile:** iOS, Swift, Cocoa Design Pattern, UIKit, Xcode, MVC design pattern, LLDB, XCTest, Unit Test. **Expertise:** Agile Project Management, Algorithms, Architecture, Debugging, Deployment, RESTful API.

WEB PROJECTS

AirDoD, Practice Full Stack Project during App Academy

[Live Link](#) | [GitHub Repo](#)

- A simple AirBnB clone, allowing users to create/update/delete spots and reviews, with user authentication features.
- Technologies used: React | Redux | Node | Express | Sequelize | Postgres | SQLite | JSON Web Token | bcrypt.js
- Designed database schema, models, and REST API for the backend, fully tested with Postman, which increased backend reliability.

Flow, Practice Full Stack Project during App Academy

[Live Link](#) | [GitHub Repo](#)

- A simple Music app, allowing users to upload their favorite songs, share, comment, and like songs.
- Technologies used: React | Redux | Python | Flask | SQLAlchemy | Alembic | AWS S3 | WTForms | OAuth
- Incorporated AWS S3 and built reusable modal components for CRUD operations, resulting in a smoother user experience.

WORK EXPERIENCE

Stay Home Dad, Career Break

2021/05 - 2023/03

- Took a career break and prepared myself to become a software developer. Solved 300+ problems on LeetCode. Learned iOS & Swift course by Dr. Angela Yu on Udemy.com. Learned Machine Learning and Deep Learning course by Andrew Ng on Coursera.com.

Co-founder and CTO, Skelmet Inc.

2016/03 - 2021/05

- Co-founded the company that pioneered the first parametric design system for personalized sunglass frames, securing \$500,000 in angel investment. Featured by Forbes 30 Under 30 in 2018 and other magazines.
- Served as principal investigator in an NIH-funded research program in collaboration with Mass Eye and Ear Hospital, designing medical devices for vision rehabilitation, which helped 20+ patients gain eye functions from ptosis. Received \$150,000 in total funding for the Phase I program. Almost got \$1.2 million in Phase II from NIH, but another co-founder left the company.
- Led a software development team to create multiple 3D scanning apps on the iOS platform for precise head measurements, enabling customized eyewear frame design. Helped the company collect 1000+ 3D head scanning samples, which aided product research and development.

EDUCATION

App Academy,	Full Stack Web Development Full-time Online Course	2023/03 - 2023/09
Columbia University,	Master of Science in Electrical Engineering	2014/09 - 2015/12
Tsinghua University,	Bachelor of Science in Electrical Engineering	2010/09 - 2014/07

ENTREPRENEURSHIP AWARDS

Forbes 30 Under 30 (North America),

2018

An annual list published by Forbes magazine that recognizes outstanding individuals under the age of 30 who have achieved notable success and made significant contributions in their respective fields.

MassChallenge Silver Award, Final List,

2018

A global nonprofit accelerator program and competition that supports early-stage startups by providing resources, mentorship, and access to potential investors and partners.

HAX Growth Accelerator,

2017

A program designed to foster the growth of hardware startups by providing funding, mentorship, and access to a network of experts and resources, with a focus on product development and scaling.