

# Thai Quach

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## Education

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San Jose State University

**B.S. Software Engineering**

**B.S. Graduation: December 2021**

• **Cumulative GPA: 3.94/4.00**

• Relevant Coursework: Data Structure and Algorithm, Object-Oriented Design, Enterprise Software, Software Life Cycle, Assembly Language Programming, Information Security, Machine Learning, Database Management

## Skills

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- **Programming Languages:** JavaScript, Python, Java, HTML, CSS, C#, C, x86 ASM
- **Technical:** ReactJS, NodeJS, ExpressJS, MongoDB, Linux, PostgreSQL, GraphQL, git, IBM Cloud, Nginx, Firebase, Couchdb, Docker Compose, TravisCI, Jest, Kubernetes, Red Hat Openshift, Tensorflow, OpenCV

## Work Experience

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**Software Engineer Intern**

May 2021 - August 2021

IBM - Extreme Blue - Technical Intern

Austin, TX

- Collaborated with 3 other interns and applied leadership, business, and technical skills to solve a business problem under guidance of IBM mentors and sponsor users' weekly feedback.
- Developed an application on IBM Cloud Pak For Security that facilitates collaboration between security threat analysts using **React, Node, Express, GraphQL, CouchDB, Docker, and Red Hat Openshift**.
- Presented and delivered the product to executive panels and CTOs of IBM Security.
- Oversaw the end-to-end development process and designed backend infrastructure, database integration, and APIs.

**Software Automation Testing Engineer Intern**

June 2019 - August 2019

Software Testing Automation ITS, University of California: Office of the President

Oakland, CA

- Developed software automation scripts and reports for test cases of new products' interfaces using **TestComplete**.
- Received training in project management, leadership, and attended formal meetings with engineering teams.
- Delivered automation scripts on strict personal deadlines with guidance of experienced software engineers.

## Projects

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**Fast Regional Based Convolutional Neural Network Model to Detect Deep-Fake**

August 2020 - present

Personal Project (Team)

San Jose, CA

- Trained a machine learning **R-CNN model** to detect popular Deep-Fake generators and data sources.
- Designed model with **Tensorflow, tf.Keras, and OpenCV2**.
- Wrote autonomous python scripts to scrape for data and clean-up datasets.
- Developed an interactive **React - Flask** website to publish the model for online users.
- Model achieved 90% of accuracy under 3 different datasets.

**IBM Good Tech Scholars - Hackathon**

July 2020 - August 2020

IBM - <http://epicedu-demo.mybluemix.net/>

Virtual

- Built Epic-Education, an online educational platform, targeting low-income elementary school kids with disabilities.
- Developed the project's infrastructure and backend using **NodeJS, Express, and React**.
- Deploy the application on the cloud with integrated AI features from **IBM cloud services: Elephant-SQL database (PostgreSQL), Watson's Text-to-speech service, and IBM Cloud Foundry**.
- Won 1st place in the hackathon program against 10 different teams.

**Development Team Chair (2019-2020) / President (2020-2021)**

August 2018 - August 2021

SJSU Software and Computer Engineering Society (SCE) - <https://sce.engr.sjsu.edu/>

San Jose, CA

- Developed the organization [website](#) using full-stack: **React, Mongo, Express, and Node**.
- Write test cases and implement continuous integration pipelines with **TravisCI, git, lint, and Jest**.
- Containerized servers with **Docker** and load balancing traffic with **Nginx**.
- Led full-stack technical workshop and interviewed, recruited, and cultivated new student leaders and engineers for projects and other organizations.