

# Nathaniel Tjandra

Backend Engineer • Software Engineer • Data Engineer

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Diligent college graduate with a Bachelor of Science (B.S.) in Computer Science, and 1.5+ years of work experience. Aiming to leverage academic research and a proven knowledge of application development, database servers, and system design procedures to successfully fill the needs of the Software Engineer role. Praised as proactive by my peers, I can be relied upon to help your company while working remotely.

## Work Experience

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### Software Engineer at University of California, Santa Cruz, CA *January 2020 - Present*

Software to perform analysis on household voltage to detect anomalies in the power distribution system.

- Develop a Restful API for end users and real-time data analysis of a network of distributed systems.
- Automate back-up from website to cold storage for instant recovery in case of outages or anomalies.
- Research and design a three-tier architecture to optimize data storage and improve transaction speeds.
- Create React website to login, display location, manage account, and integrate with third party APIs.

### Summer Research Intern at CROSS, Santa Cruz, CA *July 2020 - November 2020*

Database Management Research to develop pipelines for row, column, and time based partitioning.

- Developed ETL Layer: Extract data-sheets, transform into tables, and load into distributed storage.
- Implemented a data wrapper to store and sort partitions of data based on mappings and patterns.

## Projects

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### SuppCheck *January 17-19, 2020*

Hackathon project that allows users to look up health benefits of ingredients in fitness supplements.

- Integrated Google's Cloud Vision API to convert images of containers to be machine-readable.
- Adapted a parsing algorithm to spell check and categorize ingredients into organic versus chemical.
- Deployed a Cloud SQL Database with over 30,000 chemical compounds and information on benefits.

## Education

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### University of California - Santa Cruz *June 2020*

Bachelor of Science (B.S.) in Computer Science

## Technical Skills

## Tools

Web Development	Flask, React, Node.js, Bootstrap	●●●●●
Programming Languages	Python, C++, JavaScript, HTML, CSS, Bash, Java	●●●●●
Database Experience	Postgres, MySQL, Google Firebase, AWS S3 Glacier	●●●●●
Project Management	Git, Trello, Agile, Scrum, Kanban, Waterfall	●●●●●
Software Testing	Docker, Postman API, Actions, Travis CI, Locust	●●●●●

## Awards and Certifications

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**Award** Second Place in Health Hack Category at CruzHacks 2020

**Award** Runner Up for in Best Use of Google Cloud at CruzHacks 2020

**Certificate** LinkedIn Certified in Python programming and Git/Version Control

**Certificate** AT&T Summer Extern 2020: Trained in company culture, teamwork, and leadership skills

**Certificate of Achievement** C++ Programming from the City College of San Francisco awarded 2018