

# JACK GAUL

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## PROFESSIONAL SUMMARY

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Passionate Software Engineer with experience across entire lifecycle of cloud SaaS systems spanning system design, product management, and software development. Systems thinker who utilizes a first principles framework to deconstruct complex problems to extract actionable insights. Great cross-team communicator with proven track record of cross-domain problem-solving and execution. Currently pursuing Masters in Computer Science and Engineering to deepen technical knowledge.

## EDUCATION

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**Santa Clara University, Santa Clara, CA**

Expected Dec 2024

**M.S.**

Computer Science and Engineering

- Concentration in Cloud Computing.
- Relevant Courses: Cloud Computing; Systems Engineering Management; IOT; Applied Machine Learning; Data Mining.

**Santa Clara University, Santa Clara, CA**

May 2021

**B.S.**

Computer Science and Mathematics

- Concentration in Machine Learning.
- Relevant Courses: Applied Machine Learning; Computer Networking; Theory of Algorithms; Data Structures; Probability and Statistics; Operating Systems.

## TECHNICAL SKILLS

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- Python, SQL, C/C++, Linux, Jira, Flask, Docker, Pytorch, Kafka, LLM, Bash, Computer Vision, Looker, Strong Mathematics Foundation, Machine Learning Knowledge.

## WORK EXPERIENCE

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**Product Specialist Engineer**

Nov 2022 - Oct 2023

Verkada, San Mateo, CA

- Designed and managed engineers building all User and Access Control API endpoints for Verkada. Verkada customers were unable to programmatically manipulate users before. 10% of all new users are added via User API.
- Developed Backend API endpoints using Python and Flask to establish strategic features for customers.
- Designed and deployed on-prem and cloud access control user sync systems for high-touch global customers. Expanded total addressable market of product line leading to over \$5 million in additional sales.
- Created GTM strategy to expand wireless lock offering adoption and sales by 200%.

**Solutions Engineer**

Jan 2022 - Oct 2022

Verkada, San Mateo, CA

- Led Technical Presentations domestically and internationally for C-suite members of Fortune 500 companies as well as State and Federal organizations(both US and Canada).
- Led entire Solutions Engineering department (30 SEs) in both total sales and percentage of quota for all three quarters and still held record for highest attainment at time of leaving.
- Architected cloud-managed physical security systems to meet customers' cybersecurity and network infrastructure constraints.
- Attained \$19+ million in total sales equaling a quota attainment of 129%.

**Associate Solutions Engineer**

Oct 2021 - Dec 2021

Verkada, San Mateo, CA

- Developed a streaming method for both live and historical video footage for IOT Devices using technology request design built on top of HTTP.

**Research Intern**

Oct 2020 - Jun 2021

Giant Oak, *Arlington, VA*

- Researched and implemented large language model systems for Entity Recognition in text using Transformers to increase total recall of entities by 15%.
- Increased Automatic Entity Recognition from 0% to ~90% recall on documents.
- Leveraged Transformers (specifically BERT), Tensorflow, spaCy for Entity Tasks.

**PUBLICATIONS**

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- "Efficient City-Wide Multi-Class Multi-Movement Vehicle Counting: a Survey".
- Co-wrote a paper has been published in the Journal of Big Data Analytics in Transportation.
- Implemented and ran experiments on top team's counting algorithms from the AI City Challenge on multiple Machines. Machines ranged from Nvidia Jetson Nanos to a server with four Nvidia Titan RTX GPUs.