

NICHOLAS DIMIDIK

San Jose, CA - 408-607-7473 • NWdimidik@gmail.com • [Portfolio](#) • [LinkedIn](#)

Skills

Languages:

- Typescript, Python, C / C++, Go, Rust, Assembly, HTML / CSS, SQL, GQL, PostgreSQL, MySQL, NoSQL, JavaScript, System Verilog, NodeJs

Frameworks / Tooling:

- Redis, Docker, Kubernetes, Jenkins, AWS, Prometheus, NextJS, React, React Native, Ansible, PyTorch, NodeJS, Flask, FastAPI, TailwindCSS, Figma

Electrical / Embedded:

- Silicon Validation, FPGA, CAN /UART, Quartus II, Modelsim, LtSpice, I2C, SPI, USB

Experience

Tesla

Palo Alto, California

Autopilot Silicon Validation Engineer

Jul 2023 – Jan 2024

Developed, expanded, and maintained silicon validation infrastructure with a focus on developing software tooling for automated HIL testing, scaling infrastructure, management of nodes, and data analysis.

- Created automated CI/CD HIL/SIL testing infrastructure. Enabling real-time testing of the latest firmware builds.
- Increased testing throughput by 50% with automation suite developed during internship.
- Created data analysis software reducing the time needed for parsing and binning data from hours to seconds.

Xircle

San Jose, California

Student peer connection start-up

Jun 2022 – Nov 2022

Software Engineer

- Created user analytics implementation, using AWS and PostHog and data regressions to identify key issues.
- Implemented match, recommendation and messaging system for student peer connections using Lambda, Dynamo.
- Lead marketing campaign onboarding three clubs to use the application as a medium for event sharing.

Career Strategies

Hayward, California

Leasing Agent

Apr 2021 – Jul 2021

Managed apartment complex unit make-ready, prospect attainment, residents, maintenance, marketing surveys, as well as property tax and collection finances.

- Raised property occupancy from 73% to 92% within a month.
- Stabilized property weeks before refinance.
- Worked as a temporary Property Manager for two months during the property's re-management

Education

San Jose State School of Engineering,

Grad. Winter 2024

Four-year bachelor's program for Computer Engineering. Officer of the SJSU SCE club, oversaw development of Disocrd LLM plugin and provided guidance in on going revamp of the existing SJSU SCE website.

References

Yimeng Wang – Tesla APSOCVAL – Staff Hardware Engineer - [LinkedIn](#)

Joushua Salzedo – Tesla APSOCVAL – Associate Silicon Validation Engineer - [LinkedIn](#)

Isita Bagayatkar – Xircle LLC – Co-Founder - [LinkedIn](#)

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Additional Experience / Projects

U-Fi, Founder, San Jose

2024-Current

- Personal AI financial assistant.
- Connected with multiple bank APIs to view all transactions within one user dashboard.
- Using llama index, we isolated users' transaction information to create a unique experience based on an individual's transaction history and personalized goals.

Social Status, Founder, San Jose CA

2024

- AI IOT machine learning project wherein multiple custom-made camera modules stream images and videos for image recognition to heat map San Jose's social spots.
- 3d Printed camera modules hosting Raspberry Pi's, to video stream to ML pipeline, serving prediction results to a frontend application.

Aux-Battles LLC, Founder, San Jose, CA

2022-2022

- Prompt-based music game using Spotify's API reaching 1k+ recurring users within the first two months.
- Used NextJS, SocketIO, PocketBase for light weight rapid deployment.
- Halted production after ban from Spotify.