Nicholas Russo

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SUMMARY

Software developer with 2.5 years of experience specializing in backend development and scalable API architecture using Python and Go. Demonstrated expertise in optimizing system performance and reliability through efficient, maintainable code. Proficient in developing and deploying services across Linux environments, databases, and cloud platforms. Currently exploring AI/ML with a focus on LLM engineering.

SKILLS

- <u>Languages</u>: Python (Advanced), Go (Advanced), C (Intermediate), C++ (Intermediate), Ruby (Intermediate), JavaScript (Intermediate)
- <u>Backend</u>: Go, gRPC, Ruby on Rails, Flask, Django
- <u>Databases</u>: SQLite, PostgreSQL, MySQL, Redis
- <u>Infrastructure</u>: Docker, Linux (RHEL, Fedora, Debian, Ubuntu, Gentoo, CoreOS, Alpine)
- <u>Cloud</u>: AWS, GCP, DigitalOcean, Heroku, Cloudflare, GitHub Actions, Jenkins
- <u>Tools</u>: Git, Bash, Zsh, VS Code, Zed, Neovim, Docker

PROFESSIONAL EXPERIENCE

Software Engineer   **Omnitier, Inc.**   **January 2021 - May 2023**

- Developed a regression testing system using Go and Python, significantly improving code stability by catching unintended changes in our software's output.
- Optimized Python script performance by ~90%, reducing runtime from over 45 minutes to 5 minutes by minimizing system calls while traversing the filesystem.
- Enhanced React frontend with new features using our gRPC API and resolved bugs.

IT Support Intern   **Robert Half Inc.**   **June 2011 - December 2011**

- Managed software deployment and hardware maintenance across multiple offices.

IT Intern   **City of Pleasanton**   **January 2010 - May 2010**

- Performed routine IT tasks. Assisted in a thin client deployment to the city's library.

PROJECTS

yt-text - https://github.com/nijaru/yt-text

- Developed a web and CLI application for YouTube audio transcription, using yt-dlp for media processing and OpenAI Whisper for natural language processing.

AWARDS

2nd Place & Ingenico Winner, Money 20/20 Las Vegas 2016 - Team Kairos

- Developed a cross-terminal payment application with a REST API for business partnerships. Built with Go and PostgreSQL, deployed on CoreOS using DigitalOcean.

EDUCATION

<u>42 Silicon Valley</u>, Fremont, CA — Computer Science	2018 - 2020
<u>Las Positas College</u>, Livermore, CA — Computer Science	2014 - 2015, 2016 - 2018
Computer Science Club President	2016 - 2017
<u>Dev Bootcamp</u>, San Francisco, CA — Web Development	Fall 2016 - Spring 2017
<u>Chabot College</u>, Hayward, CA — Music Recording Technology	2013-2014