Zuo Wang

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Staff level AI backend infra engineer. 6 years of professional experience. $10M business impact.
Cross-disciplinary technical breadth in Software and Hardware Engineering, ML, Security, Product, and Infra
Experienced people leader, fun to work with, appreciate smart engineers with low ego. Friendly, honest, and genuine
Conducted dozens of algorithm and system design interviews, grew team from 3 to 7 people
Proven record in strategize and deliver reliable systems at scale through cross-team collaborations

WORK EXPERIENCE

Samaya AI   London
Member of Technical Staff   Jan 2024 - Current
- Architect Knowledge Ingestion Pipeline, Embedding Chunking strategy, Eval, RAG, and AI Infrastructure
- 0-1 build products like DeepResearch, WorkflowAgents, QueryDecomposition, StockPicker, and SelfServe
- Decrease time-to-first-token from 100 to 10 seconds (-90%), scale infra from 10 to 10k daily active user
- Onboard customers from MorganStanley, BlackRock, Citi, and Point72. Strategize pricing
- Demo for our $43.5M series A

Tesla   Shanghai GigaFactory
High Voltage Manufacture Org   Texas GigaFactory
Senior Software Engineer (manage a team of 7 people)   July 2022 – Jan 2024
- Responsible for high voltage system for Tesla Model 3, Y, S, X, Powerwall, Megapack, and SuperCharger
- Iterate chip design for CyberTruck and Megapack under tight deadline (2.5 months) and heavy pressure
- Close collaboration with worldwide vendors (CATL, BYD, TI, COSMX, HYC, Pegatron, Jabil). Often travel to their countries to conduct design reviews, on-site inspections, troubleshoot issues, and reduce defect rates
- Teach teams in Manufacture, Process, and Quality to enable them to do their own debugging and fault analysis. This helped making China battery production line 3x faster than USA line
- Finish CyberTruck battery charger 4 weeks ahead of schedule
- Bring up 50 new manufacture stations, maintain over 200 stations, handle $500k budget per year

Atlassian   Mountain View, CA
Cloud Security + Platform Infrastructure   Fully remote
Software Engineer   2020 – July 2022
- Develop auth sidecar, required for all communication between Atlassian microservices and staff
- Rewrite tools like ldap cache, rate limiter, and deduper from Java, Typescript, and Python to Golang
- On call and answer questions for a 99.99% availability internal PaaS hosting over 1400 of Atlassian services
- Create instant generator for services with bells and whistles like k8s, SOX compliant, and CI/CD
- Tools: Splunk, SignalFX, Jira, Confluence, AWS S3, Dynamodb, Lambda, Postgres, Spinnaker

TECH STACK

Golang, Python, GCP, AWS, k8s, gRPC, graphQL, vLLM, Grafana, Opentelemetry, MongoDB, VertexAI, uv, MCP

EDUCATION

Johns Hopkins University   *Master of Science*   *GPA: 3.9/4.0*   *2019*
Cybersecurity*: Cloud Security, Software Vulnerability Analysis, Security Analytics, Computer Forensics, Network security, Privacy Laws, Risk Management, Ethical hacking, Modern Cryptography*
University of Rochester   *Bachelor of Science*   *GPA: 3.6/4.0*   *2014*
Joseph C Wilson Scholarship; Dean's list
ECE*: signal processing, robot control, semiconductor, microprocessor, C++, Java, assembly, VHDL, MATLAB.*
Minor: Mathematics and Economy

SIDE PROJECTS

AppBuilder home
- Fullstack webapp for automated website building with NodeJS and Shadcn.   www.agemo.ai/codewords

Rippling remote
- Build out global expansion framework for Rippling's payroll product using PythonDjango+MongoDB+React

Unknot.id Baltimore, MD
- Implement black-box adversarial attacks against a behavior biometric auth mechanism on Android
- Harden the LSTM model robust against this <1000 queries shadow model attack building upon CleverHans

Cognitive Modeling of User Security Baltimore, MD
Researcher at JHU Computer Science Department
- Build computational cognitive modeling to simulate human decision-making in Python
- Adapt Instance-Based Learning Theory and ACT-R memory chunk activation and analyze 40GB data

Docker privilege escalation *2020*
- Research and apply Dirty COW race condition to escape from container to host

IoT Exploit *2019*
- Discover network vulnerabilities from DJI drones, Bebop drones, and Amazon Echo

Malicious Website Detection through URL Analytics *2019*
- Gather dataset from PhishTank for malicious URLs and DMOZ for benign URLs
- Utilize machine learning models in JupyterNotebook and use ROC curve to measure performances

CryptoDoneRight *2019*
- Assist in building cryptodoneright.org (a training tool for server hardening)

Leetcode
- Solved 1000+ questions, improve contest rating from 1460 to 2109 in 7 months. leetcode.com/mangoman/

Drone System Rochester, NY
- Create a drone drop system for National Training Center and Joint Readiness Training Center of U.S. Army
- 3D CAD Design and print remote controller, release mechanism, and program microprocessors in Arduino

Entrepreneurship
- Cheap long distance hitchhiking platform https://prezi.com/view/bhBhNzij1gost2k0CTnM/ *2017*
- Digital library for mixing drinks app *2016*
- Language exchange to help people find English/Chinese speaking partner echinglish.weebly.com *2014*

OTHER ACTIVITIES

Indie game dev	https://battle-map-344101.wl.r.appspot.com/
DIY electronics	headphone amplifier; windshield wiper controller; pc builds
Music	guitar player; UofR carillon society carillonneur. Multiple live concert performance
Sports	standup paddle board enthusiast, top 0.3% LoL player, amateur boxer, 10 pull ups

Personal website: https://zuo.vercel.app/
LinkedIn: www.linkedin.com/in/mrmightymango/
Github: github.com/MrMegaMango
Computational Cognitive Modeling research: behavior.isi.jhu.edu/people.html
Paper: https://www.unknot.id/post/yes-you-can-spoof-behavioral-biometrics-with-adversarial-learning