Jerry Nguyen

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EDUCATION

BS Computer Science   Feb 2019 - Jun 2023
Queensland University of Technology, Brisbane, QLD 6.4/7.0

Diploma Information Technology   Jun 2018 - Feb 2019
Queensland University of Technology, Brisbane, QLD 7.0/7.0

BS Computer Engineering   Aug 2017 - Jun 2018
Ho Chi Minh University of Technology (Bach Khoa University), Ho Chi Minh, Vietnam 8.5/10.0

High School Diploma   Jun 2014 - Jun 2017
Nguyen Huu Cau High School, Ho Chi Minh, VIetnam 8.9/10.0

EXPERIENCE

Web developer - Freelancer   Feb 2021 - Present
Kenmore Bakery – T Associates Pty. Ltd, Brisbane, QLD

- Hosted and maintained an e-commerce website for bakery wholesale.
- Enhanced performance using Cloudflare, QUIC.cloud, and LiteSpeed Cache, boosting online traffic and sales.
- Improved inventory management through website optimization.

Developer/Team Leader   Feb 2020 - Nov 2020
QUT School of Computer Science, Brisbane, QLD

- Designed backend APIs with MongoDB and Express.js; frontend using React.js.
- Developed CI/CD pipelines with Heroku for streamlined deployment.
- Managed an Agile workflow using Yodiz, Git feature branches, and Docker for project deployment.
- Provided APIs to support research projects and delivered real-time COVID-19 data visualization tools.

Hardware Technician   Feb 2021 - May 2021
Tech22, Brisbane, QLD

- Diagnosed and repaired hardware/software issues for PCs, phones, and tablets.
- Configured custom PCs and networks, including DNS servers and CCTV setups.
- Enhanced client satisfaction by streamlining inventory and ticket-tracking systems.

Software/Hardware Technician   Jul 2016 - Jul 2018
PC248 - Pacific Travel, Ho Chi Minh city, Vietnam

- Built and optimized PC configurations and networks.
- Delivered customized software and hardware solutions for clients' professional needs.

TECHNICAL SKILLS

Programming Languages	C, C#, Java, JavaScript, Python, MATLAB, Pascal, R
Web development	Node.js, Express.js, React.js, jQuery
Database	MongoDB, MySQL, MS Access
Cloud & DevOps	AWS and Azure, Docker, Heroku/Vercel CI/CD
Sysadmin	VMware ESXi, Proxmox
Networking	Wireshark, VLANs, RADIUS, IPv6
Machine Learning	Tensorflow, Keras
Others	Soldering, Basic circuitry, Networking setup, Linux/Windows Servers, Hardware diagnosis

NOTABLE PROJECTS

Covid 19 GIS *React.js, Node.js, Express.js, MongoDB, Vercel, Redis, Azure Blobs* https://covid19-gis.vercel.app/
Covid 19 Geographic Information System with Restful API server

Product Mapping *Node.js, Express.js, Pug.js, Vercel, Azure Redis, Azure Blobs* https://mashup-api.vercel.app/
Product Mapping - Explore eBay products, track popularity, and analyze availability effortlessly!

Process Overseer *C, System Programming, Cmake*
An ssh-alike program for executing and controlling server processes through client terminal by using socket programming with the help of cmake.

Wireguard Server with IPv4/IPv6 on Oracle *VLAN, Subnetting, Routing, NDP, Oracle Cloud*
Customized Wireguard VPN Server on Oracle to bypass CGNAT problem and provide full access to IPv6

5G Link Aggregation *Link Aggregation, Load Balancing, OpenWRT, Raspberry Pi, Oracle Cloud*
Customized link aggregation and load balancing between 5G and Fibre network using a custom OpenWrt firmware to enhance network performance in rural areas

ThinkPad T400 Modification *EEPROM Programming, Bios Mod, Coreboot, Soldering*
Hardware modificiation to my Thinkpad T400 to enable Quad-core support, Wifi 6, NVMe Storage and 5G connection

AMD Radeon™ RX 7900 XTX Overclocking *Watercooling, EEPROM Programming, Bios Mod, Shunt Mod*
Push my GPU to the limit with extreme hardware overclocking using liquid metal, shunt mod and watercooling

Advanced Object Recognition *Python, TensorFlow, DCNN, Image Processing, Data Analysis*
Propose a new method for training an object classification machine learning model that is both cost-effective and highly accurate.

ACHIEVEMENTS

Dean's List Award *Feb 2020* Professor, Troy Farrell
Admitted to the Dean's List of Students with Excellent Academic Performance

Dean's List Award *Sep 2019* Professor, Gordon Wyeth
Admitted to the Dean's List of Students with Excellent Academic Performance

Certificate of Achievement *Mar 2019* Director, Kenneth Beutel
Awarded to the student achieving the highest mark in Buildinng IT Systems

Certificate of Achievement *Mar 2019* Director, Kenneth Beutel
Awarded to the student achieving the highest mark in Programming Principles

Certificate of Excellence *Mar 2019* Director, Kenneth Beutel
Awarded to the student who has graduated with GPA of 7 in Diploma

QUT International Merrit Scholarship *Jul 2018* Director, Kenneth Beutel

Gold Medalist, Ho Chi Minh City Physics Olympiad *2015*

Silver Medalist, Ho Chi Minh City Physics Olympiad *2016*

Bronze Medalist, Ho Chi Minh City Physics Olympiad *2017*

Achieved global ranking for GPU overclocking performance: 3DMark Time Spy Results *2023*

REFERENCES

Jason - Xurong Liang
Full-time Ph.D. student, research and teaching assistant at UQ
Applied Scientist Internship, Amazon
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