

# Jerry Nguyen

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## EDUCATION

### BS Computer Science

Queensland University of Technology, Brisbane, QLD 6.4/7.0

Feb 2019 - Jun 2023

### Diploma Information Technology

Queensland University of Technology, Brisbane, QLD 7.0/7.0

Jun 2018 - Feb 2019

### BS Computer Engineering

Ho Chi Minh University of Technology (Bach Khoa University), Ho Chi Minh, Vietnam 8.5/10.0

Aug 2017 - Jun 2018

### High School Diploma

Nguyen Huu Cau High School, Ho Chi Minh, Vietnam 8.9/10.0

Jun 2014 - Jun 2017

## EXPERIENCE

### Web developer - Freelancer

Kenmore Bakery – T Associates Pty. Ltd, Brisbane, QLD

Feb 2021 - Present

- 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

QUT School of Computer Science, Brisbane, QLD

Feb 2020 - Nov 2020

- 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

Tech22, Brisbane, QLD

Feb 2021 - May 2021

- 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

PC248 - Pacific Travel, Ho Chi Minh city, Vietnam

Jul 2016 - Jul 2018

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

## TECHNICAL SKILLS

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

## NOTABLE PROJECTS

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**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, Pugjs, 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-like 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 modification 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

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**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 Building 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 Merit 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

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### Jason - Xurong Liang

*Full-time Ph.D. student, research and teaching assistant at UQ*

*Applied Scientist Internship, Amazon*

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### Ashley Poon

*Cloud Engineer, Cloud Kinetics*

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### Laura Lim

*Bridge Software Engineer, FPT Software*

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### Tivian Trinh

*Director, T Associates Pty. Ltd.*

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### Jim Hogan

*Professor, QUT Science and Engineering Faculty*

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### Donna Kingsbury (formerly Teague)

*Professor, QUT Science and Engineering Faculty*

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### Ashley Stewart

*Computer Science Lecturer, University of Queensland*

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