

Joshua Jordan

BEng (hons) Expert consultant

Contact

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Git

broccoli-smuggler

Languages

C++, Python, C, C#,
Java, Lisp, Javascript

Tools

OpenCV, Docker, Git,
ZMQ, Darknet,
Tensorflow, openVino,
Numpy, matplotlib, I2C,
SPI, React.js, Gatsby,
terraform

Platforms

Linux, Windows, OSX,
Nvidia Tx2, Raspberry
Pi, Keil, stm32

I make meaningful solutions using software, machine learning and creativity. I'm passionate about working with great people to solve challenging problems that make a difference to society.

Experience

- Excellent development ability in C++, Python and C
- Proven track record of independently completing cutting-edge technology projects
- System design of machine learning products
- Version control, debugging tools, effective testing and coding standards
- Large scientific codebases, greenfield projects and real-time low latency systems
- Microservices using react, docker and zmq
- Developed successful relationship with clients and investors
- Excellent written and verbal communication skills
- Constantly looking to learn and improve

Employment

2020–

Reaktor - Expert consultant

www.reaktor.com

Expert consultant for software and machine learning projects. Key project included design and implementation of a b2b recommender system for b2b ecommerce.

- Recommender design and tuning for a b2b ecommerce application
- Static website in Gatsby using terraform for infrastructure

2017–2019

IMAGR - Mechatronics Engineer

www.imagr.co

Key member in incubating a world-class computer vision solution for retail. Helped our product go from early prototype to winning a contract with an international company and customer roll out. Real time detection and classification of >10,000 unique products.

- Rapid prototyping computer vision solutions
- Electro-mechanical autonomous microservice data collection platform
- Real-time deep learning on an embedded device
- Deep dive into vision systems
- Key lead in the software team - set priorities, hiring, mentoring
- Client service and liaison with investors, contractors and customers

2013-2014,
2015-2017

Seequent - Software Engineer

www.seequent.com

Geological modelling startup producing best in class software in conjunction with a scientific diverse team. Responsible for critical features in the product.

- Implementation of complex mathematical code within a python/c code-base for windows
- Fast, responsive and intuitive application with large datasets
- Research into machine learning for classification using tensorflow

2011-2012

HITLab NZ - Researcher

www.hitlabnz.org

UX Research scholarship using a haptic device for molecular bonding problems.

- OpenGL and OpenCV development

Education

2007–2011 **Bachelor of Engineering (Honors), Mechatronics** University of Canterbury, Christchurch
2:1 Distinction
Class representative - events organisation, liaison for peers
Thesis/project: Swimming aid control system for coaching assistance

Achievements

2011 **ENZCon published paper** Massey University, Palmerston North
Parallelism of an MCU on an FPGA
2007 **McKee Trust Scholarship** University of Canterbury, Christchurch
Three year high achievement scholarship

Volunteering

2017– **Event manager and artist** Hijinx
Part of a community group running stages at various festivals in NZ. This involves Dj-ing, lighting setup and building artwork to engage and delight.
2015– **Start-up consultant** EasyLink
Technical consultant for feasibility of a passenger wheelchair system. Wrote all the software, including computer vision and controls, to get prototype ready for investor pitches.

Interests

Professional

Artificial intelligence, UX, GAN's for nlp, embodied cognition, topology, computer vision, systems design.

Personal

DJ'ing, surfing, kite-surfing, football, sailing, guitar, skiing, acting.

Written references available on request.