Joshua**Jordan**Software Engineer

Contact

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Languages

C++, Python, C, C#, Java

Tools

OpenCV, Docker, Git, ZMQ, Darknet, Tensorflow, openVino, Numpy, matplotlib

Platforms

Linux, Windows, Nvidia Tx2, Raspberry Pi, Keil I make solutions using software, sensors and machine learning. I excel in a team environment, solving challenging problems in creative ways.

Experience

- Excellent development ability in C, C++, C# and Python
- Proven track record of developing cutting-edge tech
- Responsible for system design of computer vision products
- Extensive experience with subversion, debugging tools and best practices
- Wide range of sensor integration for microcontrollors
- Intuitive end-to-end UI and UX design
- Excellent written and verbal communication skills
- Thrive within a creative team environment
- Constantly looking to learn and improve
- Experienced in start-up culture

Employment

2017–2019 IMAGR - Mechatronics/Software Engineer

www.imagr.co/

Responsible for designing a world-class computer vision solution for retail. Saw our product go from early prototype to winning a contract with an international company and customer roll out. Real time classification of >10,000 objects.

- Rapid prototyping computer vision solutions
- Designed an electro-mechanical autonomous data collection platform
- Real-time deep learning classification on an embedded device
- "Big data" pipelines using zmg
- Deep dive into camera systems
- Helped set up the software team hiring, testing and best practices
- Liasion with investors, contractors and customers

2013–2017 **Seeguent (formaly AranzGeo) - Software Engineer**

www.seequent.com/

Geological modelling startup producing best in class software in conjuction with a diverse team. Responible for critical features in the product.

- Implementation of complex mathematical code within a python/c codebase for windows
- Fast, responsive and intuitive application with large datasets
- Bug tracking, licensing and automated tests for desktop application

2012–2013 **Trimble Navigation - Software Engineer**

www.trimble.com/survey/

Developed innovative surveying products in a mature codebase to produce a wide range of geospatial data.

- Research and prototyping of real time HUD devices as an independent initiative
- GPS and UX work in C and C++ for Windows CE devices
- Developed an external API for third parties

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 (Hons), Mechatronics** University of Canterbury, Christchurch

2:1 Distinction

2007 NCEA level 3 Nayland College, Nelson

1st in English NCEA level 3 (final year) Distinction in Drama NCEA level 3 (final year)

STAR University maths program

Awards

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

Interests

2017– **Hijinxx**

Part of a community group running stages at various festivals in NZ. This

involved Dj-ing, lighting setup and event management.

Professional

Machine learning, game theory, artificial intelligence, embodied cognition, topology, computer vision, systems design, climate change.

Personal

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

References available on request.