

Michael Nefiodovas

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Programming Languages: Python, C++, TypeScript (React), Java

Natural Languages: English (Native)

Anticipated Graduation: Dec 2023

📖 Education

University of Western Australia

Perth, WA

Mathematics and Statistics BPhil (Hons) 6.9/7.0 GPA, 87.9/100.0 WAM

2020–Present

Coursework: nefsite.vercel.app/grades

👜 Experience

Diadroit

Perth, WA

Founder and Research Director

Jan 2022–Present

- Achieved client's research outcomes by delivering on weekly project requirements by performing data analysis, data visualisation and report generation.
- Directed the operation of research project for client by coordinating the clear communication between 5 separate departments throughout client's institution.
- Enhanced client's research impact by advising on research gaps which resulted in the application for 2 research grants.

System Health Lab

Perth, WA

Research Engineer

Dec 2020–Present

- Overhauled the University of Western Australia's industry advisory panel review process by developing a full-stack MERN web application from start to finish, reducing review times from multiple weeks to hours.
- Developed an institution-wide asset management system to be used by over 5000 students with the MERN stack.
- Developed masters level applied statistics workshop content alongside 2 professors at the University of Western Australia for classes of over 300 students.

University of Western Australia

Perth, WA

Teaching Assistant

Feb 2022–Present

- Helped run a 2nd year computer science class (CITS2401: Computer Analysis and Visualisation) for 15 hours/week by running laboratory classes and answering student questions.
- Assisted coordinators by developing 5 new assignment questions.

University of Western Australia

Perth, WA

Machine Learning Research Intern

Nov 2021–Feb 2022

- Increased team's understanding of research landscape in fine-grained image classification problems by writing and presenting a literature review summarising how these ideas could be transferred to a natural language processing domain.
- Progressed research goals by proposing a new ensembling method which improved accuracy across a wide range of datasets.
- Made a key insight which uncovered that one of the core machine learning systems could be overfitting. Consequently introduced a validation dataset into the pipeline to address these uncovered problems.

📖 Reading Groups and Personal Projects

Convex Optimization (Stephen Boyd and Lieven Vandenberghe)

Oct 2021–Apr 2022

Abstract Algebra (David Dummit and Richard Foote)

Jan 2022–Mar 2022

Information Theory, Inference, and Learning Algorithms (David MacKay)

Nov 2020–Oct 2021

Category Theory (Steve Awodey)

Dec 2020–Mar 2021

- Significantly matured me academically (because I failed).

Pattern Recognition and Machine Learning (Christopher Bishop)

Dec 2019–Nov 2020

CS330: Deep Multi-Task and Meta Learning (Chelsea Finn, et al.)

Jul 2020–Nov 2020

Reinforcement Learning Papers Reading Group

Mar 2020–Jul 2020

Hopfield Network Command Line Tool (C++)

Sep 2021

Coffee Production Optimisation and Analysis using Linear Programming (Scipy, Orgmode)

Jul 2021

Steam Friend Graph Explorer and Visualisation (D3.js)

Jun 2021

Personal Site (React, Next.js)

Dec 2020

Generative Adversarial Network Implementation (PyTorch, Orgmode)

Jun 2020

OpenAI Gym Reinforcement Learning Environment Package for "Spoof" (Python)

Nov 2019

Leadership

Bachelor of Philosophy Union

Vice President of Outreach

Jan 2022–Present

Summer Camp Master of Ceremonies and Co-Coordinator

Feb 2022

Coders for Causes

President

Mar 2021–Mar 2022

Committee Member

Mar 2020–Mar 2021

Volunteer/Trainee Software Developer

Dec 2019–Mar 2020

Programming Competition Society

Mentor and Trainer

Mar 2021–Present

Committee Member

Mar 2021–Mar 2022

Competitor and Student

Jul 2020–Present

Teach Learn Grow

Program Coordinator

Mar 2020–May 2020