

James Barnes

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github.com/jimbxb

Summary

I am a student of computer science, completing a Master of Computer Science at The University of Melbourne. My research project in the Master of Computer Science degrees relates to the design and implementation of a higher order extension to a programming language called Wybe, and features various novel compiler optimisations. Recently, I completed a Bachelor of Science achieving excellent results. My strengths and interests relate to computing and technology.

Skills

Programming Languages:

C, Java, Python, JavaScript, Haskell, Prolog, MATLAB, \LaTeX , HTML5, CSS.

Software:

Visual Studio Code, Github, Eclipse, Microsoft Word, Microsoft Excel, Microsoft PowerPoint.

Natural Languages:

Native English, introductory-level Chinese (Mandarin).

References

Professor Timothy Baldwin

The University of Melbourne
Melbourne Laureate Professor
tb@ldwin.net
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Michael Broeks

WorkSafe Victoria
Workers' Compensation (Premium)
– Product Owner
michael.broeks@worksafe.vic.gov.au
+61 4 1113 2922

Les Kitchen

The University of Melbourne
Honorary Senior Research Fellow
jebref@po.ljk.id.au

Education

The University of Melbourne, Master of Computer Science

2020 - Present

Topic: Higher-order Programming in Wybe
Grade: First Class Honours (83.000 WAM)

The University of Melbourne, Bachelor of Science

2017 - 2019

Major: Computing and Software Systems
Grade: First Class Honours (83.000 WAM)

Belmont High School

2011 - 2016

Select-Entry Accelerated Learning Program

Work Experience

Summer Vacation Intern – Telstra

Summer 2020 - 2021

My role as an intern at Telstra was primarily focused around the the MyTelstra app. I was responsible for the synthesis and maintenance of quality assurance tests, along with general devops responsibilities. I also developed features on the front-end of the MyTelstra web app.

Academic Tutor & Demonstrator – The University of Melbourne

2019 - Present

My role as a tutor and demonstrator is to teach introductory concepts in computing, primarily to first year students. Tutors are also responsible for grading a large number of student's exams and assignments. I also was responsible for facilitating discussion within lectures.

Data Analyst – WorkSafe Victoria

Summer 2019 - 2020

My role at WorkSafe was the validation and cleaning of confidential and public company records. Extra responsibilities included the validation of automated data entry, making heavy use of macros in Excel.

Kitchen Hand – Soft Cafe

2015 - 2022

Projects

Scalr.io – UniHack'21 1st Place

2021

First-prize winning UniHack'21 submission built with my team over the course of 48 hours. Scalr.io offers a platform where users can upload and utilise machine learning models through a simple to use web interface or API, allowing users with little technical knowledge to utilise machine learning.

Airloom – B.S. Capstone Project

2019, Semester 2

Undergraduate degree capstone project, built over the course of a semester. The project involved rigorous software modelling, planning, design and implementation of a web-based family heirloom register, making use of various technologies.

Volunteering

Student Representative – The University of Melbourne

2022, Semester 1 – Master of Computer Science.

2021, Semester 1 – Distributed Algorithms (COMP90020)

2020, Semester 2 – Advanced Theoretical Computer Science (COMP90057)

Student-teacher liaison responsibilities.

Awards

Undergraduate Excellence in Computing and Information Systems Scholarship – Runner-up

2018

Awarded to an undergraduate student in the Computing and Software Systems major for excellent academic achievements.