

Jakub Nabaglo

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PHONE

[GITHUB.COM/JAKUBNABAGLO](https://github.com/JakubNabaglo)
GITHUB

PROFILE

Computer science and mathematics student undertaking a research degree at the Australian National University. Interested primarily in machine learning, theoretical computer science, and mathematical analysis. Capable software engineer.

PROGRAMMING LANGUAGES

- Python, excellent
- C, good
- C++, intermediate
- Swift, intermediate
- Objective-C, excellent
- C#, good
- JavaScript, intermediate
- Java, intermediate

WORK EXPERIENCE

SOFTWARE ENGINEERING INTERN, ROME2RIO JANUARY–FEBRUARY 2017

- Developed algorithms for processing geopolitical data
- Wrote finely optimised location lookup code in C#
- Integrated work with large existing codebase

SOFTWARE ENGINEERING INTERN, CHATTY KIDS JUNE–SEPTEMBER 2016

- Developed a content recommendation system using machine learning techniques
- Extracted features from ebooks
- Developed new features in JavaScript and integrated them into the product

TA, AUSTRALIAN NATIONAL UNIVERSITY MARCH 2016–JUNE 2017

- Taught Artificial Intelligence and in Web Development and Design
- Assisted students with understanding of course material
- Marked assignments

CASUAL WEB DEVELOPER, VARIOUS DEPARTMENTS, ANU MARCH 2016–MARCH 2017

- Developed web applications in Python using Flask
- Wrote UIs in JavaScript
- Completed quick-turnaround projects

MEDIA TECHNICIAN, THE LIEDER THEATRE COMPANY JANUARY–JULY 2015

- 12-screen multimedia installation on low budget using Raspberry Pi boards
- Audience interaction with mobile web app
- Collaborated with creatives

TECHNICAL SKILLS

- Concurrent programming
- Understanding of UI design
- Markup: HTML, CSS, Jinja, LaTeX
- Low- and high-level programming
- Relational databasing
- Familiarity with Unix systems

EDUCATION

AUSTRALIAN NATIONAL UNIVERSITY 2014-2017 (EXPECTED)

BACHELOR OF PHILOSOPHY (SCIENCE) (HONOURS)

- HD average, GPA 6.85 (out of 7)
- Machine learning
 - computer vision
 - natural language processing
 - neural networks
 - reinforcement learning
- Theoretical computer science
 - algorithms
 - formal verification
 - grammars and parsing
 - concurrent systems
- Pure and applied mathematics
 - pure and applied algebra
 - number theory
 - pure and applied analysis
- Exchange semester University of British Columbia, SEPTEMBER-DECEMBER 2016

RESEARCH PROJECTS

- *Optimising Experiments for Photometric Redshift Prediction* FEBRUARY 2016-PRESENT
with Dr Cheng Soon Ong, CSIRO, and Dr Christian Wolf, ANU
- *Formal Verification of the Shuffle-Sum Protocol* FEBRUARY-JULY 2016
with Dr Dirk Pattinson, ANU
- *Automated Bee Pose Estimation* JULY-OCTOBER 2015
with Dr Cheng Soon Ong, NICTA, and Dr Stephen Gould, ANU
- *High Level Programming for Fully-Predictable Real-Time Systems* FEBRUARY-JUNE 2015
with Dr Uwe Zimmer, ANU

GENERAL SKILLS

- Organisation and time management
- Excellent communication
- Independent problem solving
- Bilingual

AWARDS

- **Tuckwell Scholarship** 2014-PRESENT
- Goulburn Young Citizen of the Year 2013

REFERENCES

Professional and academic references on request.