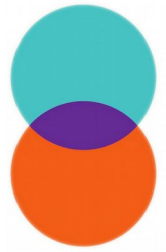


Patrick Nappa

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github/bitbucket: pnappa



Languages

C, C++, Python, Java, SQL (incl. PL/pgSQL), Go, Lisp, Bash, Datalog, Prolog, TeX, HTML5, CSS3, JS

Experience

Research Assistant – *University of Sydney* (2018)

Used C++ and OpenMP to optimise equivalence relations in a Datalog compiler (Soufflé, by ORACLE Labs), this research resulted in:

- Achieved an estimated 50 million times speedup
- The research is integrating into the official production codebase
- Pending publication in an academic journal

Undergraduate Course Development – *University of Sydney* (2018)

Principles of Security and Security Engineering (INFO3616)

Developed lecture content, assignments, and tutorials covering:
web-application security + common attacks,
system access control,
- providing course mentorship

Data & Information Management (ISYS2120)

- developed tutorial content to supplement coursework
- covering Python Database Object Relational Models (ORM), and their integration with SQL databases

Academic Tutor – *University of Sydney* (2015-2017)

Information Technology Capstone Project (Masters, COMP5703)
Object Oriented Design (INFO3220), Data Structures (INFO1105), Operating Systems and Machine Principles (COMP2129), Principles of Distributed Systems and Networks (COMP2121), Foundations of IT (mentor, INFO1003)

Awards

University Postgraduate Honour Roll (Empirical Security Analysis and Engineering) (2018)

Achieved the highest mark across the cohort in the postgraduate security subject, COMP5617. This subject covers threat modelling, vulnerability triage (STRIDE/DREAD), emergency remediation, automated tools, and building high-performance web scanners.

University Medallist (2018)

This merit is only awarded to students that have an aggregate mark over 90 in Honours, and is presented only with recommendation of the faculty board.

Dean's Excellency Award (2017)

The prize recognises the highest performing students who have completed the previous year of study with a WAM (weighted average mark) of at least 85 and studied 48 credit points, and is awarded on recommendation of the Dean.

High Honour Roll (2014-2015)

The prize is awarded for high performing students who achieve top marks in subjects or have a WAM of 85 or above.

Highest Marks

- Achieved the highest marks in:
- Operating Systems and Machine Principles (COMP2129), obtaining full marks. Often referred to as the most intensive subject in the undergraduate degree.
 - Empirical Security and Security Engineering (COMP5617)

The University of Sydney Access Scholarship

Education

Bachelor of Computer Science (Adv.) Honours – *University of Sydney* (2018)

Graduated with First Class Honours with University Medal