

Maciej Goszczycki

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About Me

Final year undergraduate student at Maynooth University, studying Computer Science and Software Engineering. I am fascinated by programming languages, design and security. I am an avid competitive programmer.

Recent Positions

Google UK

January 2019 to August 2019

Classic internship with the Google Chrome Mobile V8 Team. Saving memory in the JavaScript V8 engine by increasing memory sharing between JavaScript virtual machine instances.

Google France

June 2018 to August 2018

Classic Internship with the Compiler Research Team. x86/x64 assembly optimisation and analysis at Google scale using C++. Developing the partially open source project EXEgenesis.

Maynooth University

September 2016 to present

Second year student at the Computer Science and Software Engineering course.

SPUR (Summer Programme for Undergraduate Research) in Parsimonious C to Turing Machine coding, using LLVM.

Achievements

- 3rd place in Irish Collegiate Programming Competition in 2018 and 2013.
- Represented Ireland twice in the International Olympiad in Informatics in 2013 and 2012
- Represented Maynooth University at NWERC 2017
- Participated in HackMIT 2018 Hackathon at MIT, Cambridge, Massachusetts
- 1st place in All Ireland Programming Olympiad 2012
- 3rd place in Ireland at Google Hash Code 2017
- 1st place in Maynooth "Programmathon" 2017 and 2016
- 1st place in CoderDojo Coolest Projects 2015 hardware category – "BlueTie - homebrew 8-bit micro-coded computer"
- 1st place in CoderDojo Coolest Projects 2012 competition – "Oda - a unique, interpreted, low level language"
- 1st place in the Irish Centre of High-End Computing supercomputer competition 2013
- Highly commended award in BT Young Scientist 2014 – "Teaching people programming through an online game"
- 2nd place in CoderDojo Coolest Projects 2014 competition - "Spotant - A new type of search engine"

Skills

- Proficient in Rust, Python, C, Modern C++, Objective-C, Modern JavaScript including Node.js
- Limited experience with Haskell, K/Kona (APL derivatives), Swift
- Knowledge of Git, Vim, macOS and Linux server experience
- Experience reading and writing x86/x64 assembly, knowledge of the Mach-O binary format
- Cocoa development experience

Work Experience

Lantca

Part-time August 2016 to September 2016, January 2017, June 2017

Network security company. Aggregating multiple blacklists and Google Safe Browsing API for network request filtering. Report generation using LaTeX and SciPy from request logs. Major rewrite of a legacy Angular.js dashboard, backend improvements (caching, working with AWS).

Evercam

June 2013 and June 2015

Dublin based CCTV camera software start-up. Interactive Twitter bot in Node.js. Zapier API integration. Developed the official Node.js API client. Designed and implemented new evercam.github.io.

OpenWifi

November 2014

Business Wi-Fi provider. Developed software in C for triangulating Wi-Fi enabled devices using libpcap, running OpenWRT routers.

Irish Centre of High-End Computing

March 2013

Interactive presentation showcasing ICHEC's involvement in various academic projects. Using Angular.js, Python and D3.js.