

Omri Bornstein

Software/Security Engineer

Go/Linux enthusiast, curiously seeking challenges & professional development

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Education

2020 — 2023 **Bachelor of Computer Science**, [Monash University](#), Clayton VIC

Skills

- **Programming Languages:** Go, JavaScript/TypeScript, **Python**, Kotlin/Java, C/C++, C#
- **Tools:** **Git** (with GitHub/GitLab), MongoDB, **Docker**, **Terraform**, gRPC/Protocol Buffers, [Hugo](#), [NixOS](#)
- **Platforms:** **Linux**, **cloud-native**, web servers/browsers, macOS, Windows, Azure, Firebase
- **Design & Implementation:** algorithms & data structures, object-oriented programming, test-driven development
- **Security Analysis:** reverse-engineering (Ghidra), network analysis (Wireshark), Burp Suite, entry analysis ([nmap](#), [gobuster](#), [sqlmap](#)), credential brute-forcing ([hydra](#), [john](#), [hashcat](#))
- **Hobbies:** [playing guitar](#), listening to/analysing music, self-directed learning, personal projects

Experience

- since June 2024 **Associate Software Engineer**, *Altera Digital Health*, Melbourne (remote), .NET, Angular, MSSQL
- Contributed enhancements and fixes to existing products.
 - Co-lead PoC and custom implementation projects based on requirements set by APAC clients.

Monash Cyber Security Club (MonSec)

- 2023 **President**, [Terraform](#), [Azure](#), [Git](#), [Hugo](#)
- Involved with industry relations for the purposes of sponsorship deals and collaborations.
 - Overhauled the [club's website](#) for greater usability.
 - Assisted in adding more Azure infrastructure and an automation pipeline to the [club's CTFd server](#) with [Terraform](#) and [GitHub Actions](#).
 - Organised and ran an introductory-level [workshop](#) about command-line Linux.
- 2022 Q3—Q4 **Vice President**
- Coordinated collaboration with the university's [Faculty of IT](#) for purposes of events and advertising.
 - Organised and ran an introductory-level [workshop](#) about [steganography](#).
- 2022 Q1—Q2 **Secretary**, [Python](#), [Git](#)
- Wrote a custom Jupyter notebook for membership base analysis and reporting purposes.
 - Organised and ran an introductory-level [workshop](#) about [binary reverse-engineering](#).
 - Wrote a guide on the [resources page of the club's website](#) on how to easily install and set-up a [Kali Linux](#) virtual machine.
- 2021 Q3—Q4 **Assistant Member Training Officer**
- Helped to organise and ran a workshop about brute-forcing tools used for penetration testing.
 - Assisted in the club's management and operations.

Research

- 2023 **Research Assistant**, *Monash University's FIT3144 unit*, [JavaScript](#), [Python](#) & [Git](#)
[Extended \(available on GitHub\)](#) a browser-based tool ([Wagner et al., 2023](#)) used for building evolutionary algorithms in educational settings. Supervised by [Dr. Markus Wagner](#).
- 2021 Q3—Q4 **Research Assistant**, *Monash University's FIT2082 unit*, [C/C++](#), [Python](#) & [Linux](#)
- [Contributed \(available on GitHub\)](#) to an [existing codebase](#), based on prior research ([Gange, Harabor and Stuckey, 2021](#)) about *Lazy CBS*, a [Multi-Agent Path Finding](#) (MAPF) algorithm.
 - Built with [C/C++](#) and [Python](#) for Linux-based platforms. Supervised by [Dr. Daniel Harabor](#) and [Dr. Mor Vered](#).

Freelancing

- 2023 Q3—Q4 **Associate Software Engineer**, *Radio Monash*, Clayton, volunteering
- 2021 Q3—Q4 **Software Engineer**, *Contract*, Melbourne, [Go](#) & [test-driven development](#)
Implemented a custom asynchronous fault-tolerant file back-up system that enables the continuation of file transferring from a variably-approximate point in time before the disruption. Available at [AppleGamer22/rb on GitHub](#).

Projects [external contributions](#)

- since May 2022 **raker**, [AppleGamer22/raker on GitHub](#), [Go](#), [Docker](#) & [MongoDB](#)
A social media scraper that is interfaced via a server-side rendered HTML user interface (or a CLI), and is managed by a REST API and a NoSQL database. I presented this project at [Melbourne's Go meet-up](#).
- since May 2022 **stalk**, [AppleGamer22/stalk on GitHub](#), [Go](#), [Linux](#) & [macOS](#)
A cross-platform file-watcher that can run a command after each file-system operation on a given set of files or simply wait once until a file is changed.
- since January 2022 **cocainate**, [AppleGamer22/cocainate on GitHub](#), [Go](#), [macOS](#) & [Linux](#)
A cross-platform re-implementation of the macOS utility [caffeinate](#) that keeps the screen turned on either until stopped, for a set duration of time or while another process still runs.
- 2019 — 2022 **scr-web**, [AppleGamer22/scr-web on GitHub](#), [TypeScript](#), [Angular](#), [Docker](#) & [MongoDB](#)
My previous attempt at building a full-stack (and a CLI) social media scraper with a single-page website framework and a RESTful server.