Adrian Catană

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https://github.com/adicatana

Work Experience

Forward Deployed Intern	Palantir, London, UK	July - October 2019

- **Skywise PI team**: Implemented a microservice in Kotlin for build schedules versioning for the Skywise pipelines. Worked with different clients to efficiently onboard them on the platform.

Software Engineering Intern	Facebook, London, UK	April - September 2018

- **Source Control team**: Implemented a cross platform telemetry wrapper for Mercurial in Rust
- **Live Server team**: Implemented a subscription mechanism in C++ to improve correctness of the Live Server system for cached Live Query responses

Software Engineering Intern	Bloomberg, London, UK	July-September 2017

- **Mobile platform team**: Researched cross-platform technologies and the possibility of writing Swift for Android. Migrated parts of the mobile application codebase from Objective-C to Swift

Teaching Assistant	Imperial College London	2017-2019

- Teaching and mentoring 8 first-year undergraduates in Logic, Discrete Maths, Graphs and Algorithms
- Assessing students' work and providing them with appropriate feedback

Education

London, UK	Imperial College London	October 2015 - June 2019

- Master of Engineering in Computing, First class degree - 77%
- Engineering Dean's List (top 10% in Computing) for third year results
- 96% Algorithms, 92% Mathematical Methods, 91% Intro to ML, 82% Deep Learning, 85% NLP
- Courses: Operating Systems, Networks, Compilers, Concurrency, Architecture, Software Design, ML for Imaging, Reinforcement Learning, Mathematics for ML

Projects

- **PintOS Operating System**. Extended a basic operating system, implementing features such as scheduling algorithms, support for user system calls and management of virtual memory. **C**
- **WACC Compiler**. Wrote a compiler from scratch for a variant of the While family languages. Added a mark and sweep garbage collection algorithm as an extension. **Java**
- **ARM Project**. Implemented an emulator and an assembler for a subset of the ARM architecture. **C**

Awards and activities

- **ACM UKIEPC** - Qualified for **NWERC**, Bath, UK (2017) and **NWERC**, Eindhoven, NL (2018)
- **Romanian National Mathematical Olympiad (2010 – 2015)** - 2 Gold medals (2012, 2015), 1 Silver medal (2011) and 3 Bronze medals (2010, 2013, 2014)

Skills

- **Technical:** Intermediate: Java, Kotlin; Beginner: Rust, C/C++, Bash, Swift, Elixir, Python
- **Frameworks:** Apache Kafka, Apache Spark, Neo4J Graph Database, Microsoft SQL Server
- **Tools:** Nuclide (Atom), Eclipse, IntelliJ, CLion, Xcode, Android Studio, Git, Mercurial, Jira
- **Operating Systems:** Windows, Linux, MacOS