

Luke Lau

- MAI Computer Science at Trinity College Dublin. Achieved I and I in first and second year
- Scholar in Computer Science since 2017
- Studied abroad at University of Toronto in 2017-2018, with 3.68 and 4.00 sessional GPAs

Projects

haskell-ide-engine

Successfully completed Google Summer of Code in 2018 with the Haskell organisation. I worked on haskell-ide-engine, an open source language server for the Language Server Protocol which provides IDE support (such as diagnostics and autocompletion) to any text-editor or client that also supports the protocol. I developed a functional testing framework, lsp-test, and used it to build up a robust test suite and aid in the development of new features. I still help maintain and develop the project, keeping it up to date with the latest specification and keeping it at the cutting edge - the specification moves really fast. We're proud to say that at the time of writing we're the third most starred language server on GitHub!

Franz

Currently maintain and develop an Apache Kafka client framework for Swift called Franz. It's open source, so when I discovered it I rewrote large chunks of it to be more "swifty": Dropped the old delegate based API for closures, utilised the new decodable/encodable protocols to remove vast amounts of boilerplate, added support for the Swift Package Manager and other improvements.

Mixmate

Developed an iOS app that allows users to create and share collaborative playlists on Apple Music. It's powered by CloudKit and was built with Swift, with the aim to make it as native to iOS as possible. I squeezed every last drop of UIKit magic and know-how that I learnt over the past 3 years into it!

Experience

I am currently a part time Junior Software Developer at TheAppBuilder.

I joined in July 2016 as an intern, and now work on the iOS, Android and web apps (as well as the server and APIs that power them). The technology used is mostly Microsoft based with C# used on both the frontend (Xamarin) and backend (ASP.NET).

Some of the things I've developed include:

- A 2 factor registration system through SMS messaging
- A system that allows internal content to be safely shared externally on other social media platforms
- Reworking an AngularJS web app, redesigning the UI and refactoring it to Typescript
- Porting the Selenium.Support NuGet package to .NET Core

Achievements

- 3rd place UKIEPC 2016 @ DCU
- Bloomberg Codecon Global Finalist January 2017 @ London
- 1st place @ Trinity Google HashCode 2017
- Google Summer of Code participant 2018

I am currently the inter-societies officer with the internet society at Trinity College, Netsoc. I help plan events with other colleges, sysadmin the servers and give talks on cool technologies.

Skills / Interests

Haskell, Swift, C#, Racket, Python, Ruby, Javascript; I love machine learning, programming language design and open source software!

Links

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<https://lukelau.me>

<https://github.com/bubba>

<https://stackoverflow.com/users/1320911/luke>

References available on request