

Alex Wyllie

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Profile

Interested in theoretical computer science, and artificial intelligence, with particular emphasis on machine learning, natural language processing, and machine translation. Also interested in high-level programming and application development, specifically for mobile platforms.

Skills

Programming languages: Swift, Java, C++, C, Python

Platforms: MacOS, UNIX/Linux (Ubuntu, Fedora, Debian, OpenBSD), MS Windows (Windows 7 & 10), iOS, Arduino/micro-controllers and IOT (Internet of Things), Raspberry Pi

Software: iWork (Pages, Keynote, Numbers, Xcode), MS Office (Word, Powerpoint, Excel), Google Drive (Docs, Sheets, Slides), MatLab, Eclipse IDE, Github, Jenkins, Maven, Android Development Studio, MS Visual Studio, Xcode, Vim & Command-Line (Bash & Darwin), Arduino, Autodesk AutoCad, MatterControl (3D printing), LaTeX

Education

HENRY CLAY HIGH SCHOOL, LEXINGTON, KY,

AUGUST 2012 - JULY 2016

BACHELORS OF SCIENCE IN COMPUTER SCIENCE, BACHELORS OF SCIENCE IN MATHEMATICS, UNIVERSITY OF KENTUCKY, LEXINGTON, KY

AUGUST 2016 - PRESENT

Senior

Projected Graduation: December 2019

GPA: 3.4; completed 154 credit hours

Relevant Courses: Machine learning, networking, advanced calculus (real analysis), numerical analysis, linear and matrix algebra, systems programming, optimization theory and dynamic programming, linear programming, combinatorics and graph theory, cryptology and software engineering, differential equations, computer networking, artificial intelligence, and complex geometry.

Experience:

PRODUCT LEAD DEVELOPER - DILEX NETWORKS

JUNE 2019 - PRESENT

Lead ground up rewrite of the Formatim app that was acquired from me by Dilex Networks with intention of use in preprocessing for machine translation software for Latin to English Translation software. A new version of the app will be added to the App Store at some point.

SELF EMPLOYED - FORMATIM FOR IOS AND ANDROID**DECEMBER 2015 - JUNE 2019**

Designed and built an app that provides lookup support for the Latin language and functions as a convenient pocket dictionary for Latin. Was released in March 2017 on iOS. Was acquired by Dilex Networks in Summer 2019. Website: www.dilex.net/formatim. The app is no longer available on the App Store.

LAB TECHNICIAN - UNIVERSITY OF KENTUCKY, DEPARTMENT OF INTERNAL MEDICINE, DIVISION OF ENDOCRINOLOGY**MARCH 2017 - AUGUST 2017**

Unpaid volunteer position working under Dr. Lisa Tannock (Principle Investigator) and Dr Joel Thompson (Lab Supervisor). Lab work included digital image analysis of biological outcomes and data entry, data verification, DNA extraction, isolation, and purification.

L Tannock, J Thompson, P Wilson, AP Wyllie, and AK Wyllie. Elevated circulating TGF- β is not the cause of increased atherosclerosis development in biglycan deficient mice. *Atherosclerosis Journal*, 268: 68-75, 2018

ACADEMIC RESEARCHER - NANYANG TECHNOLOGICAL UNIVERSITY, COLLEGE OF COMPUTER SCIENCE AND ENGINEERING.**JUNE 2018 - AUGUST 2018**

Paid academic research work alongside Dr. Zinovi Rabinovich and Dr. Svetlana Obraztsova. Work included aiding in the design of and coding of a computational social choice experiment.

Future plans

I am currently studying at the University of Kentucky where I am pursuing a dual bachelors degree in mathematics and computer science. I plan on developing my background knowledge in artificial intelligence, machine learning, data structures, and theoretical mathematics to further reinforce my software engineering standing.

Awards and Recognitions

UNDERGRADUATE RESEARCH ABROAD SCHOLARSHIP**APRIL 2018**

\$5,000 awarded to pursue research at an academic institution outside of the United States. I used this scholarship to pursue research at Nanyang Technological University in Singapore.