

Alex Dao

☎ (214) 289 2906
✉ alex.dao@duke.edu
🌐 www.alexdao.me
📄 Github:// alexdao

Education

2013–2017 **B.S in Computer Science**, *Duke University*, Durham, NC, GPA – 3.77.
Dean's List (x5)

Work Experience

Summer 2016 **Software Engineer Intern**, FACEBOOK, Menlo Park, CA.

- Optimize memory management and performance in the Facebook and Messenger Android apps on the Core Health team
- Work with Android NDK, diagnostic experimentation, and error reporting pipeline

Summer 2015 **Software Engineer Intern**, VERIZON, Atlanta, GA.

- Develop algorithms to journeymap customer behavior (modeling with big data)
- Work with Teradata, Hadoop, Hive, SQL, and other RDBMS services

2014–Current **Android Developer**, FREELANCE AND PERSONAL.

Lumivote

- Full stack development - account syncing with website, database management, external APIs
 - Libraries: Android Support, Picasso, Otto, Butterknife, OKHttp, Retrofit, Gson, etc.
- Genetics and Evolution App
- Contracted app for the Duke and Coursera course BIO202: Genetics and Evolution
 - Implements animations, graphing, and genetic algorithms

2014–Current **Teaching Assistant**, DUKE UNIVERSITY, Computer Science and Math Department.

- TA for Discrete Math, Data Structures and Algorithms, and Operating Systems
- Taught a weekly recitation/discussion section for each class

Research

2015 **Computer Science Lab**, RESEARCH ASSISTANT.

Worked with **Prof. Bruce Donald** to computationally design proteins, using graph theory and branch pruning algorithms for future applications in HIV drug delivery. Coded in Java and open-source on GitHub.

2014–2015 **Biomedical Engineering Lab**, RESEARCH ASSISTANT.

Worked with **Matt Berginski** and **Prof. Brenton Hoffman** to analyze biomedical images using segmentation algorithms, object tracking, and various types of blob analysis in Matlab.

Skills

Advanced Java, Android Development, C

Proficient Lisp (Scheme/Racket), MIPS Assembly

Casual Python, C++, HTML/CSS

Tools / Frameworks Android Studio, IntelliJ, Eclipse, *nix Environments, Git, XML/XQuery/XPath, Gradle, JSON, REST, Flask

Awards and Leadership

2016 **President** Duke ACM

2015 **1st Place** HackDuke (Hackathon)

2015 **2nd Place** International Collegiate Programming Contest Divisional

2014/2015 **Top 30/100** Duke Startup Challenge

2012 **National** American Junior Academy of Science Fellow