

# Alex Dao

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## Education

2013–2016 **B.S in Computer Science**, DUKE UNIVERSITY, GPA – 3.8.

## Work Experience

2017 **Software Engineer**, FACEBOOK, Menlo Park, CA.

Summer 2016 **Software Engineering 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

2015 **Embedded Systems Engineer**, ELITEPOWERSOLUTIONS.

- Design and implement a Battery Management System (BMS) for electric vehicles, which managed cell voltages, temperatures, charging, capacity, configuration, and fail-safes
- Work with extreme memory and computational constraints

Summer 2015 **Software Engineering 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, Databases, and Operating Systems
- Taught a weekly recitation/discussion section for each class

## Skills

Advanced Java, Android Development, C

Proficient Lisp (Scheme/Racket), Python, Node, C++, MIPS Assembly

Casual HTML/CSS

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

## Awards and Leadership

2016 **President** Duke ACM

2015/2016 **1st Place** HackDuke (2x)

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

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

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