Alex Dao

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Education

2013–2016 **B.S in Computer Science**, Duke University, *GPA − 3.8*.

Work Experience

2017–Present **Software Engineer**, Facebook, Menlo Park, CA.
- Android engineer working on News Feed and large, experimental projects
- Extensive experience with A/B testing, data analysis, UI/UX design, performance, multi-threading, and system design

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

2014–2016 **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

2014–2016 **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++, Hack, MIPS Assembly

Casual HTML/CSS

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

Awards and Leadership

2017 **1st Place** SXSW Hackathon

2016 **President** Duke ACM

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

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