. . ♦ CURTIS LI ♦ . .

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BACKGROUND

New York University – College of Arts and Science   May 2017
Bachelor of Arts, Computer Science Major, Economics Minor   Cumulative GPA – 3.95
With Summa Cum Laude, with Honors and Graduate classes,   Major GPA – 4.00
Computer Science Prize for Outstanding Performance, and University Honors Scholar

Skills/Tools: **Languages:**
Vim, Git, Linux, MongoDB, Express,   Java, C/C++, JavaScript, Golang   (Proficient)
Android, iOS, Travis-CI   Python, Objective-C, Swift   (Adequate)

WORK EXPERIENCE

Software Engineer – Facebook, Inc.   July 2017 – Present
Software Engineer doing cool things at a cool company.

Software Engineering Intern – NimbleDroid Inc.   May 2016 – September 2016
Systems engineering at a small startup performing performance profiling and QA automation for Android applications
- Controlled and monitored the Android runtime environment by hacking the AOSP framework and kernel
- Improved the accuracy of static performance profiling through linear regression and statistical modelling
- Developed the *dalvik-tracer* by augmenting the Dalvik VM to log bytecode and native method executions
- Bypassed SE-Linux security protocols to achieve root by creating a custom super-user binary for Android
- Wrote and managed Android applications for testing, and performed QA for assessing new product features

Systems Research Assistant – New York University   September 2015 – May 2016
Second-author of research paper presenting Orochi, an efficient web-verification system using bytecode de-duplication
- Extended Facebook's HHVM interpreter and Oracle's MySQL source code to support multi-value operations
- Developed the *hhvm-log* by instrumenting HHVM to record request headers, SQL queries and execution flows
- High proficiency in C/C++; contributed over 2,000 lines of code, and restructured over 100 PHP bytecodes
- Strong understanding of web stack and testing, with experience using LEMP stack and Bash/Python scripting

Web Developer – Pilotstar Enterprise   Summer 2014
Developer at a software house providing all-in-one services and portal sites for youth hostels and elderly care centers
- Enriched user experience by developing JavaScript widgets, maintaining content and improving page layout
- Assisted in server-side code by creating dynamic content using the ASP development framework

Other: Algorithms Grader at NYU (Sep 2015 – Dec 2015), CS Tutor at NYU (Mar 2015 – May 2015),
Marketing Intern at IBM (Summer 2015), Digital Intern at Mindshare (Summer 2014)

NOTABLE PROJECTS

SlackerRank – Online judge service for daily programming competitions, with scaling mechanisms for high traffic
- Built the scalable back-end code evaluator service using AWS (EC2 and SQS), Docker, Python and Protobuf

Pymon – Python web-development tool which automatically restarts servers by monitoring file system changes
- Support for regex-based file filtering, monitoring multiple applications, and non-Python applications
- Integrated unit testing using PyUnit and Travis-CI, and support for both Python 2 and 3

Nemo – iOS application in Objective-C which uses crowd-sourcing to locate nearby vacant parking spots for drivers
- Developed back-end server, and integrated Google Maps API and Cloudinary API into front-end application

Scrappit – Scraper for Reddit, which scrapes and downloads posts, images, gifs and links for offline viewing
- Concurrent file downloading using Go routines, with support for Imgur, Gfycat and other sites

Gift It – Web application which stores gift ideas, reminds users on special occasions, and assists purchasing gifts
- Full-stack development using Express/MongoDB. Automated email scheduling, search features, and Ebay API

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