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github.com/cuhtis

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## BACKGROUND

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### New York University – College of Arts and Science

Bachelor of Arts, Computer Science Major, Economics Minor

With Honors Classes, Graduate-Level Classes, and Dean's List 2013 – 2016

Expected May 2017

Cumulative GPA – 3.95

Major GPA – 4.00

**Activities:** Hong Kong Student Association (Vice P.), Association for Computing Machinery

### Skills/Tools:

Vim, Git, Linux, MongoDB, Express,  
Android, iOS, Travis-CI

### Languages:

Java, C/C++, JavaScript (Proficient)  
Python, Objective-C, Swift, Golang (Adequate)

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## WORK EXPERIENCE

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### 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)

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## NOTABLE PROJECTS

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**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

**C-Shell** – A fully-functional shell program written in C for a Unix-based operating system

- Support for built-in functions, piping, redirection, background execution and conditional operators

**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

**Refugee's Choice** – Non-profit website promoting North Korean refugee discussion through choice-based story telling

- Created during PennApps Fall 2016 for Liberty in North Korea, with front-end development using Angular 2

