

Carlos Gonzales

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EDUCATION

UNIVERSITY OF MARYLAND

B.S. IN COMPUTER SCIENCE
B.A. IN ECONOMICS
May 2018 (expected) | College Park, MD
Cum. GPA: 3.22 / 4.0
Honors College Scholar

POOLESVILLE HIGH SCHOOL

SCIENCE, MATH, AND
COMPUTER SCIENCE MAGNET
PROGRAM
June 2014 | Poolesville, MD
Cum. GPA: 3.87 / 4.0
Magnet, Research, and
Community Service Honors

LINKS

Github:// [cnexus](#)
LinkedIn:// [carlosgonzales1](#)
StackOverflow:// [cnexus](#)
XDA-Developers:// [CNexus](#)

COURSEWORK

UNDERGRADUATE

Algorithms and Data Structures
Object Oriented Programming
Unix Tools and Scripting
Game Theory and Cryptology
Statistics

SKILLS

PROGRAMMING

Completed projects:
Java • Android • Shell • Dalvik
bytecode
Used in projects:
C • C++ • Assembly • Hex Editing
Familiar:
SQL • LISP • Scala

TOOLS

Fireworks • Flash • Dreamweaver
UNIX • gradle • git • vim
Android Studio • Eclipse

EXPERIENCE

NATIONAL INSTITUTES OF HEALTH | BIOINFORMATICS INTERN

June 2013 – Aug 2013 | Bethesda, MD

- Created and programmed several scripts in Bash and Java to facilitate data processing with the MISO (Mixture-of-Isoforms) statistical analysis framework.
- Verified a conclusion reached by the Taliaferro research group using data collected independent of the Taliaferro group.
- Resultant work is now used to build upon the Taliaferro results regarding the AGO2 and alternative splicing associations proven to be valid.

PROJECTS

BRAILLEWRITER | HARDWARE

HackNC 2014 | Chapel Hill, NC

- Built a text-to-braille interface using an Arduino and servo motors.
- Awarded 2nd place overall at HackNC.

ANDROID FIRMWARE DEVELOPMENT | REVERSE ENGINEERING

May 2012 – Present

- Reverse engineered code to allow for coloring of system-wide components, as well as backporting features from newer devices.

SCAVENGER HUNT APP | ANDROID

Oct. 2014 | Cambridge, MA

- Developed an app designed to streamline the creation and distribution of real-time, dynamic, and creative scavenger hunts.

MOARCROPPER | ANDROID

Aug. 2014 | Germantown, MD

- Built a simple app using the **android-crop** library to aid in cropping notification pulldown and statusbar backgrounds for users of the **MOAR** custom rom.

SENSE 5 PORT | REVERSE ENGINEERING

June 2013 | Germantown, MD

- Ported the Sense 5 OS from the HTC One to the Qualcomm Samsung Galaxy S3 family using a combination of apk disassembling, hex editing, and kernel modifications. See the **original XDA-Developers thread** for more info.

SUBSTITUTE SCHEDULING SOFTWARE | JAVA

Jan. 2012 – May 2012 | Poolesville, MD

- Led the development of the fully self-contained and user-friendly **SubScape** software to optimize the process of and scheduling for school substitutes.

AWARDS AND SOCIETIES

2014	2 nd /70+	HackNC Hackathon Competition (BrailleWriter)
2014	Regional	Maryland Club Soccer Team
2014	National	College Board AP Scholar with Distinction Award
2013	National	College Board Hispanic Recognition Award
2013	2 nd /National	AbilityOne Design Challenge - Outstanding Assistive Technology
2013	National	Mu Alpha Theta Honor Society
2013	National	Spanish Honor Society
2013	National	Rho Kappa Society