

KARI GREEN

Computer Science Engineer

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A computer science engineering graduate (December 2017) from the University of Michigan with a demonstrated ability to quickly resolve complex, interdisciplinary problems improving computation efficiency and code quality. Proven ability to effectively communicate technical ideas and issues with non-technical end-users.

- Python
- C/C++
- SQL
- Linux/Bash
- Git
- C#
- Groovy/Java
- Jenkins/CI
- Docker
- HTML
- CSS
- JavaScript

EDUCATION

**UNIVERSITY
OF MICHIGAN**
Graduating Dec 2017

BACHELOR OF ENGINEERING: COMPUTER SCIENCE

- GPA: 3.5 — Magna Cum Laude
- Minor in Scandinavian Studies

EXPERIENCE

GE HEALTHCARE
May 2017 – July 2017

EDISON SOFTWARE ENGINEERING INTERN (DEVOPS)

- Optimized the software build process by creating a new containerized build system using Docker. Integrated new hardware into the build system. Achieved a 5x improvement in software compilation time.
- Scripted a Jenkins pipeline using Groovy and JSON files retrieved from GitHub to automatically initiate software builds. Allowed for continuous software integration and testing.

FAST ENTERPRISES
May 2016 – Aug 2016

SOFTWARE IMPLEMENTATION INTERN (CONSULTATION/DATABASES)

- Communicated with non-technical consumers to identify errors in the system or desired new functionality. Implemented and tested the agreed upon upgrades producing a more robust, higher-functioning product.
- Analyzed code changes for a major software upgrade. Pinpointed or resolved potential conflicts between the current code and the upgrade to significantly reduce the implementation time.

**KRESGE HEARING
RESEARCH INSTITUTE**
Jan 2010 – Present

RESEARCH ASSISTANT

- Designed and executed a project that evaluated antioxidants as a method for treatment of congenital hearing loss in a mouse model. These results provided an immediately viable treatment option for humans with the most common form of hereditary hearing loss. Published these findings in a first-authored paper in Nature's Scientific Reports.
- Advanced the data analysis techniques in the lab by writing scripts (using R) that automatically provide T-tests and ANOVAs as needed. Allowed for faster and more complex data analysis.
- Produced 5 top-tier publications, 4 first-authored, and presented at multiple national and international conferences as a collaborator on many interdisciplinary projects related to language acquisition and hearing.

ACCOMPLISHMENTS

**UNIVERSITY
OF MICHIGAN**
2017

EA GAMES SPONSORED SENIOR DESIGN COMPETITION: SECOND PLACE

- Thrifty Thieves: 4 player video game written in C# using Unity

SOUTH BY SOUTHWEST
2016

SELECTED TO REPRESENT U OF M AT A MAJOR TECHNICAL CONFERENCE

- 3D-printed personalized medical devices

PUBLICATIONS

Green KL, Swiderski DL, Prieskorn DM, DeRemer SJ, Beyer LA, Miller JM, Green GE, & Raphael Y. (2016) **“ACEMg diet supplement modifies progression of hereditary deafness”** Nature Scientific Reports.

Lee MY, Hackelberg S, Green KL, Lunghamer KG, Kurioka T, Loomis B, Swiderski DL, Duncan RK, & Raphael Y. (2017) **“Survival of human embryonic stem cells implanted in the guinea pig auditory epithelium”** Nature Scientific Reports.

*Green CN. (2014) **“FOXP2 mediates operant self-learning necessary for language development”** The Past, Present and Future of Language Evolution Research. p. 58

Green CN, Green GE. (2014) **“Language development in children with laryngeal abnormalities identifies prerequisites for verbal protolanguage.”** In: Hackensack NJ and London. Eds. The Evolution of Language. Singapore: World Scientific Publishing.

Green CN, Driver LE, Bohm LA, Green GE. (2012) **“Speech development in previously aphonic children after airway reconstruction recapitulates evolution of spoken language.”** In: Scott-Philips TC, Tamariz M, Cartmill EA, Hurford JR, editors. Evolution of Language. Singapore: World Scientific Publishing; p.158-164.

PRESENTATIONS

Green KL. **Treatment of Cx26 Hereditary Deafness.** Lawrence Hawkins Lectures, Ann Arbor, MI. (2015).

Green KL, Stephenson MK, Green KJ & VanKoeveering KK. **Printing a second chance : 3D-printed personalized medical devices in pediatric patients.** South by Southwest, Austin, TX. (2016)

Lee MY, Hackelberg S, Green KL, Lunghamer KG, Kurioka T, Duncan RK, & Raphael Y. **Transplanted human H9-GFP stem cells survive in scala media of conditioned guinea pig cochlea.** ARO, San Diego, CA (2016). (Poster Session)

Green CN. **Language development in children with laryngeal abnormalities identifies prerequisites for verbal protolanguage.** Evolang, Vienna, Austria. (2014).

Green CN. **Speech development in previously aphonic children after airway reconstruction recapitulates evolution of spoken language.** Evolang, Kyoto, Japan. (2012).