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.

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

# EDUCATION

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| **UNIVERSITY  OF MICHIGAN**  Graduating Dec 2017 | **BACHELOR OF ENGINEERING: COMPUTER SCIENCE**   * GPA: 3.5 – Magna Cum Laude * Minor in Scandinavian Studies |

# Experience

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| 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

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| 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 & VanKoevering KK. **Printing a second chance : 3D-printed personalized medical devices in pediatric patients**. South by Southwest, Ausin, 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).

\*Note: Formerly known as Caroline N Green