KARI GREEN

Computer Science Engineer

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A computer science engineering graduate (December 2017) from the University of Michigan with demonstrated abilities to: (1) resolve complex, interdisciplinary problems, (2) improve computation efficiency and code quality, and (3) 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
- Optimized the software build process by creating a new containerized build system with Docker. Integrated new hardware into the build system. Achieved a 5x improvement in software compilation speed.
- 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 CONSULTANT INTERN
- 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 data analysis techniques in the lab by producing an algorithm that automates the quantification of ribbon synapses in the inner ears of mice. Upgraded other data analysis techniques in the lab by writing scripts that automatically provide T-tests and ANOVAs as needed. Allowed for faster, automated, 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
- 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

USA TRIATHLON
2014 – 2015 – 2016

QUALIFIED FOR AND COMPETED IN THE NATIONAL CHAMPIONSHIPS

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. https://www.nature.com/articles/srep22690

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. https://www.nature.com/articles/srep46058

*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