

KARI GREEN

Software Developer And Consultant

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A software developer/consultant with demonstrated abilities to: (1) resolve complex, interdisciplinary problems, (2) oversee the entire development life cycle of consumer-facing software, and (3) effectively communicate technical ideas and issues with non-technical end-users.

- C/C++
- Visual Basic .NET
- SQL
- Python
- C#
- Docker
- Groovy/Java
- Jenkins/CI
- HTML/CSS

EDUCATION

UNIVERSITY OF MICHIGAN

Sep 2013 – Dec 2017

BACHELOR OF ENGINEERING: COMPUTER SCIENCE

- GPA: 3.5 – Cum Laude
- Minor in Scandinavian Studies

EXPERIENCE

FAST ENTERPRISES

Full-Time: May 2018 – Present

Internship: May 2016 – July 2016

SOFTWARE IMPLEMENTATION CONSULTANT

- Oversaw the entire development life cycle of many key features in a consumer-facing software product. Communicated with non-technical consumers to identify errors in the current system or desired new functionality. Designed, implemented, and tested these new features or corrections using AGILE methodologies in a heavily object-oriented environment.
- Analyzed code changes for a major software upgrade. Resolved potential conflicts between the current code and the upgrade to prevent errors in the production environment.

GE HEALTHCARE

May 2017 – Aug 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.

KRESGE HEARING RESEARCH INSTITUTE

Jan 2010 – Jan 2018

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 & 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).