Benjamin Greene

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I am a curious and enthusiastic developer. Tinkering, both physically and in code makes me tick, and I deeply enjoy applying machine learning approaches to problems of vastly different domains. I have 7+ years of work experience, 4 of which are technical, and I hold an active DOE Q clearance.

Relevant Skills

Language

- Experience in Spanish and Russian

Programming

- Python, C, Java
- Scheme, Bash, LaTeX, PostgreSQL
- Scrum, continuous integration
- Git, test-driven development

Other Skills

- Extensive physical, electronic, firmware, and software prototyping experience.
- Significant experience with Linux distributions
- Formal training in book preservation, repair, and archiving
- Formal training in typesetting, printing, and metalsmithing

Links

- LinkedIn: benjaminkgreene
- Git: alcofrisbas

Advisors

- Undergrad Advisor:
  Jeff Ondich
  jondich@carleton.edu
- Undergrad Capstone Advisor:
  Dave Musicant
  dmusicant@carleton.edu

Education

BA: Computer Science   June 2019

Carleton College
Relevant Coursework: Software Design, Database Systems, Syntactic Theory, Linguistic Field Methods, Diachronic Linguistics, Graph Theory, Computer Graphics, Machine Learning, Computational Models of Learning, Natural Language Processing, Database Systems

Experience

SAIC | Machine Learning Engineer   Oct 2019-Present

- Investigate and create cutting-edge machine learning algorithms using PyTorch and Tensorflow
- Implement larger-than-memory data managing software for machine learning applications which directly integrates with machine learning libraries
- Collaborate with customers on domain-specific machine learning and language development applications

Sandia National Lab | Year Round R&D Intern 2018-Sep 2019

- Center For Cyber Defenders Member
- Developed and worked with data analysis toolkits in foreign language analysis
- Implemented fast forward deployed cyber analytics software and researched graph-related data-processing methods
- Researched machine learning techniques for synthesizing and analyzing network data

Datrium | Extern   Dec 2017

- Learned about scalable cloud data storage and open convergence server infrastructure
- Assisted in front-end web app bug fixing

Realitone Inc. | Programmer   2017-2018

- Designed software to process audio samples
- Created algorithms primarily in Python to seamlessly splice and loop sounds for use in a vocal synthesizer

Independent Book Repair Business   2017-2019

- Worked with clients on personal library upkeep, including appraisals, repair, protective services, and referrals
- Provided instruction for clients that want to learn more about book preservation

Carleton College Library Preservation Assistant 2016-2019

- Conducted minor and major repair on library books to aid in circulation
- Undertook preservation projects on several-hundred-year-old books and manuscripts
- Designed and created templates for improved book enclosures

Los Angeles Philharmonic,Togos,Hogan Brothers 2014-2019

- Interfaced with customers in various service industry positions
- Engaged in active customer-related problem-solving and unruly crowd management

Publications and Conferences

- Kevin Potter, Brendan Donohoe, **Benjamin Greene**, Abigail Pribisova, Emily Donahue(2020). Automatic detection of defects in high reliability as-built parts using x-ray CT. In Proc. SPIE. 11511, Applications of Machine Learning.
- Andrea Conley née Gallegos, **Benjamin Greene**, Brendan Donohoe(2020). Application of a Paired Neural Network to Aftershock Identification. Poster session presented at the meeting of American Geophysical Union.

Awards

Larson Fellowship for Photojournalism in Latin America 2017

- Explored the impact of European culture in modern day South America by interviewing and capturing portraits of individuals in Peru, Ecuador, and Colombia
- Designed photo essay and exhibition in Carleton College Athenaeum