Ellis Brown

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EDUCATION

VANDERBILT UNIVERSITY

Aug 2013 – May 2017 | Nashville, TN School of Engineering

B.S. COMPUTER SCIENCE B.A. APPLIED MATHEMATICS

Dean's List (Spring 2014, 2016) Cum. GPA: 3.4 / 4.0 CS GPA: 3.6 / 4.0

SCHOLARSHIP

Osage Indian Nation

4 yr. Higher Education Tribal Scholarship TLSAMP Research Scholar

MARY INSTITUTE & ST. LOUIS COUNTRY DAY SCHOOL

Grad. May 2013 | Saint Louis, MO AP Scholar with Distinction National Merit Commended Scholar

LINKS

LinkedIn:// ellislbrownii GitHub:// ellisbrown

COURSEWORK

UNDERGRADUATE

Machine Learning
Artificial Intelligence
Web Programming
Big Data
Computer Networks
Coding Theory & Cryptography
Algorithms
Abstract Data Structures TA & Grader (C++)

SKILLS

PROGRAMMING

Languages

Python • Javascript • Typescript • Java C++ • Lua • SQL • Bash • Git • ET_EX

Frameworks

Pytorch • Torch • SKLearn • NLTK • AWS Angular2 • Node.js • Express.js • Spark

LEADERSHIP

BlackRock Intern Portfolio Challenge Team Lead of 10 Members (Summer 2016) Vanderbilt Water Polo Captain (2015-2016) Kappa Sigma Social Chairman (2014-2015)

RESEARCH

ARTIFICIAL INTELLIGENCE AND VISUAL ANALOGICAL SYSTEMS LAB Researcher under Dr. Maithilee Kunda, with Dr. Adriane E. Seiffert Jan 2017 - Present | Nashville, TN

• Researcher on NSF funded project, "A Computational Cognitive Architecture to Model Human Visual Search for Spatiotemporal Targets"

Sep 2017

- Lead author on paper being submitted to AAAI-18 Conference
- Giving oral presentation at AISES National Conference Sep 2017

PROJECTS

OPEN SOURCE DEEP LEARNING PROJECTS

ssd.pytorch | March 2017 || GitHub:// amdegroot/ssd.pytorch 0 18 \bigstar 289 P 81 Working with Max de Groot, implemented and maintain a PyTorch version of the unified framework for real-time object detection using a single network outlined in Wei Liu's paper [arXiv:1512.02325v5]

deepgenres.torch | Spring 2017 || GitHub:// amdegroot/deepgenres.torch
Deep convolutional neural network for audio classification of music genres Torch. Lua

VANDERBILT | ADVANCED COMPUTER SCIENCE COURSE PROJECTS

Web Programming | Full-Stack SPA Solitaire game | Fall 2016

Node, Backbone, React, AJAX, MongoDB, PUG (Jade), Underscore

Big Data | Market Prediction ML | Spring 2016 || GitHub:// dcarr45/FinanceML Predicting near-term S&P 500 index trends using machine learning. Aggregated 15 years worth of NYT articles on top S&P performers and performed sentiment analyses on to see if general sentiment could predict a rise in the S&P over a month.

EXPERIENCE

BLACKROCK | SOFTWARE ENGINEERING ANALYST

July 2017 - Present | New York, NY

BLACKROCK | SOFTWARE ENGINEERING INTERN

June 2016 - Aug 2016 | New York, NY

- Full-stack developer -Wrote Angular2 webapp for Cash Reconciliation Rule Management using TypeScript with SpringMVC Java back-end.
- Intern Hackathon Winner (Team of 4)—Structuring Unstructured Data at Scale PDF Parsing, NLTK NER, SKLearn Decision Tree ML prediction, Angular2 web

AWARDS

2016 Finalist BlackRock Founder's Scholarship2016 Finalist Google Lime Scholarship

2013 National (2X) USA Water Polo Academic All-American

SOCIETIES

National American Indian Science and Engineering Society (AISES)
Regional Tenn. Louis Stokes Alliance for Minority Participation (TLSAMP)

National USA Water Polo Olympic Development Program