Chris Gregory

Contact

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Languages

C / Java / Python
HTML5 / CSS / Javascript
PHP / SQL
Swift

Technologies

Git / Github
Unix / Bash / Ubuntu
EmberJS / React / NodeJS
Atlassian (Jira + Confluence)
Eclipse / Visual Studio / Xcode
Jersey REST (JAX-RS)
mySQL / MongoDB
Sublime / Vim / Atom
ASP.NET (C#)

Courses

Computer Science

Algorithms
Data Structures
Machine Learning
Computer Interfaces
Theory of Computation
Discrete Mathematics
Computational Geometry
Artificial Intelligence
Programming Languages
Linear Algebra
Multivariable Calculus
Machine Structure and Assembly Language Programming

Cognitive & Brain Sciences

Intro to Psychology
Intro to Cognitive & Brain Sciences
Philosophy of Cognitive Science
Biology of Psychopathology
Statistics for Psychology
Organisms and Populations
Experimental Psychology
Social Psychology
Intro to Philosophy
General Chemistry
Intro to Ethics

Education

2014 - Current
Expected May 2018

Bachelor of Science, Tufts University — Medford, MA
Majors in Computer Science and Cognitive & Brain Sciences
Dean's List every semester.

2010 - 2014

Park Tudor High School — Indianapolis, IN
National AP Scholar, National Merit Scholar Finalist

Experience

Summer 2016

Charles River Analytics – www.cra.com — Cambridge, MA
Software Development Intern
- Built software for the US Navy using machine learning techniques to detect faults in' communications hardware on their ships
- Programmed in Java and JavaScript to make an interface, for visualizing and interacting with calculated predictions

2015

Computer Science Teaching Assistant
- Held office hours for the Tufts Data Structures course.
- Taught basic algorithmic analysis, sorting techniques, polymorphism, and coding standards.

Summer 2015

Y!kes – www.yikes.co — Indianapolis, IN
Software Development Intern
- Created the web app that allows hotel employees to easily check guests into their rooms so that they can unlock doors with their smart phones
- Designed endpoints for a Python backend and developed frontend interfaces with Ember, providing essential analytics to hotel management

Projects

2016

Mammogram Classification Using CNNs
- Optimized convolutional neural networks to both detect abnormalities present in mammograms and classify them as benign or malignant
- Used TensorFlow and Python (SciKit) to construct the CNNs and then perform classification and additional testing

2015

Movement Prediction
- Wrote a supervised machine learning algorithm for predicting user inputs in a 2D space based on observed decision patterns
- Included nondeterministic component and multiple adaptation capacities to increase computer prediction accuracy over time

2015

Universal Machine
- Created a universal machine in C using the von Neumann model
- Optimized code to efficiently run output as programs for the machine

2015

Network Graph Visualizer
- Created GUI for building and editing network graphs
- Implemented adjustable force-directed graph simulation algorithms

Activities

2016

Tufts Polyhack Hackathon
- Created image processing algorithm for edge detection with local binary patterns and basic kernel convolution

2014 - Current

Varsity Track and Field Athlete
- Ran middle distance for Tufts varsity track and field

2014 - 2015

Tufts Mountain Club Webmaster — www.tuftsmountainclub.org
- Maintained and expanded upon the website that allows hundreds of the club's members to sign up for outdoors trips and excursions

2013 - 2014

Introduction to Python Instructor
- Taught group of middle school students basic programming with Python