Chris Gregory

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Languages
Java / Python / C / C# / Haskell
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
Computational Models for CogSci
Algorithms Using Data Structures

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

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, GPA: 3.65

2010 - 2014
Park Tudor High School — Indianapolis, IN
National AP Scholar, National Merit Scholar Finalist

Experience

Summer 2017
Microsoft – www.microsoft.com — Bellevue, WA
Software Engineering Intern
- Worked on the distributed reactive compute service used by Cortana
- Developed an API that lets clients query the status of data streams and subscriptions to those streams on the Reactor platform in near real-time

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

Activities

2016
Yale YHack Hackathon
- Developed a machine learning webapp that used collaborative filtering to predict user music preferences with an easy to use interface.

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

2013 - 2014
Introduction to Python Instructor
- Taught group of middle school students basic programming with Python