

Benjamin K. Carriel

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EXPERIENCE

Apple, Software Engineer Intern

I built an application that used machine learning and big data techniques to improve the paging system in Mac OS X.

Goldman Sachs, Summer Analyst

I worked in Goldman Sachs Electronic Trading (GSET) and built an application that would help process high-volume trades for clients.

Cornell Daily Sun, Lead iOS Developer

I started the team that builds the mobile-app for the Cornell Daily Sun. I worked primarily on the iOS version of the app.

Cornell Dept. of Computer Science, Teaching Assistant, CS 3110

I preach the good word of functional programming to 20-40 students twice a week. Other responsibilities include office hours, making problem sets, and exam problems. The course is *CS 3110 : Functional Programming and Data Structures*

Cornell Math Support Center, Tutor

I tutor students at all levels of Math background. Subjects range from pre-calculus to Analysis, Algebra, and Topology.

EDUCATION

Cornell University, College of Arts and Sciences

Ithaca, NY

BA Mathematics

expected May 2014

BA Computer Science

expected May 2014

SELECTED COURSEWORK

Mathematics

Honors Analysis I-II
Honors Algebra I-II
Topology
Combinatorics
Real Analysis*
Complex Analysis*
Partial Differential Equations*
Differentiable Manifolds*
Algebraic Topology I-II*

Computer Science

Object-Oriented Programming
Functional Programming
Systems Programming and Organization
Operating Systems
Introduction to Algorithms
Compilers
Design and Analysis of Algorithms*
The Structure of Information Networks*
Advanced Programming Languages*

Note: A * indicates a course taken at the graduate level.

PROJECTS

ocaml-monadic

A Haskell-style monad library in OCaml featuring implementations of commonly used monads and monad transformers.

ocaml-data-structures tex-swg

Implementations of common data structures in OCaml.
A collection of \LaTeX styles and macros for typesetting Mathematics and Computer Science problem sets.

Project Euler

A series of math-related programming challenges.
Currently over 100 problems solved.

SKILLS

Programming: OCaml, Haskell, Scala, Python, Java, C, \LaTeX

Platforms: UNIX, Git, Subversion, Spring, Apache TomCat, Phabricator

General: Guitar, Sailing, Soccer, YoYo