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 — May 2014
BA Computer Science — May 2014

SELECTED COURSEWORK

Mathematics	Computer Science
Honors Analysis I-II	Object-Oriented Programming
Honors Algebra I-II	Functional Programming
Topology	Systems Programming and Organization
Combinatorics	Operating Systems
Real Analysis*	Introduction to Algorithms
Complex Analysis*	Compilers
Partial Differential Equations*	Design and Analysis of Algorithms*
Differentiable Manifolds*	The Structure of Information Networks*
Algebraic Topology I-II*	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	Implementations of common data structures in OCaml.
tex-swag	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, Doumbek, Sailing, Soccer, YoYo