MB 195, 3817 Spruce Street Philadelphia PA 19104

LEWIS ELLIS

(208) 699-9616 EllisL@seas.upenn.edu

EMPLOYMENT

Teaching Assistant

University of Pennsylvania

January 2012 - Present

- Programming Languages & Techniques I (CIS 120)
- Teach a lab section, hold office hours and exam review sessions, grade homework projects and exams

Developer

PennApps Labs

April 2012 - Present

· Create and maintain web apps used by Penn's student body and learn Django along the way

Junior Counselor

Canada/USA Mathcamp

June 2012 – August 2012

- Made the camp-wide hiking trip, talent show, and feedback survey happen; managed camp finances
 and visitor accommodations; taught campers to speedcube; made lots of liquid nitrogen ice cream
- Served as an RA and role model for campers; did whatever needed done to keep camp running

Programmer, Consultant

XDGuys, LLC

July 2009 - March 2011

- Advised owners on shopping cart, payment processor, web hosting, and SEO options
- Set up and customized a new shopping cart system to fit their purposes, tripling their sales volume

EDUCATION

Philadelphia, PA

University of Pennsylvania

Fall 2011 - Present

- Working toward B.S.E. in Market and Social Systems Engineering (MKSE). 2011-2012 GPA: 3.7
- Coursework: Artificial Intelligence; Algorithms & Data Structures; Scalable & Cloud Computing; iPhone App Dev; Economic Game Theory; Probability; Linear Algebra; Discrete & Combinatorial Math

Coeur d'Alene, ID

Coeur d'Alene Charter Academy

Fall 2004 - Spring 2011

- Graduated May 2011, distinguished as most outstanding graduate in mathematics. GPA: 3.95
- Dual-enroll classes at North Idaho College: Calculus I-III; Differential Equations; 2 semesters C++

ACTIVITIES

EPGY Summer Institutes

Summer 2010

• Studied AI, made Boggle and Sudoku solvers, made Chess and Checkers players, Common LISP

Canada/USA Mathcamp

Summer 201:

• Studied automata, computability, number/set/graph/information theory, probabilistic algorithms, cryptography, and recursion. Worked on project to make AI player for the card game Dominion.

TECHNICAL EXPERIENCE

Projects

- PSPNet, PSPTD (2008). Text-based web browser, tower defense game, for Playstation Portable. Lua
- **TWFarmer** (2009). Script and database system to track gamestate and statistics, and automate repetitive tasks like resource-farming in a web-based MMO game. PHP, MySQL, JavaScript
- **Nitrakr** (PennApps Fall 2012). Made web frontend which analyzes iPhone location data and uses FB, GMaps, and GPlaces APIs to tell users where they went and with whom. PHP, postgres, HTML/CSS/JS
- **Dropbox IDE** (2nd place HackRU F2012). Online IDE which uses Dropbox as the user's workspace. Made in 21 hours with two teammates. Ruby/Sinatra, Javascript, HTML/CSS. www.DBIDE.com

Languages, Platforms, Technologies

- Lua, Python, PHP, MySQL, HTML/CSS/JS, Java, C++, OCaml; familiar with Ruby, ObjC, CLISP, Haskell
- Eclipse, Visual Studio, Sublime2, Django, Git, Heroku, AWS, MapReduce, FB/Dropbox/GMaps APIs