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EXPERIENCE

Kavveri Telecoms

July 2009

Website Developer

- Drupal installation and custom theme development.

Ottawa Fringe Festival

June 2009

Website Developer

- Developed Wordpress theme for website. Modified plugins as needed. Developed custom e-commerce payment gateway for online purchasing.

Google Inc.

May 2008–August 2008

Summer of Code Participant for Adium

- Developed an open-source framework for detecting dates, times, addresses, phone numbers, etc. for use in the OS X instant messaging client Adium.

Department of National Defense: Centre for Operational Research and Analysis (Co-op)

July 2007–Aug 2007

Programmer/Analyst

- Performance analysis and tuning of an existing application. Developed further enhancements.

Department of National Defense: Centre for Operational Research and Analysis (Contract)

Sept 2006–Jan 2007

Programmer/Analyst

- Ported an existing application for aircraft loading and deployment using genetic simulated annealing to C++. Integrate into a Java application for aircraft load balancing. Profiling and optimization.

Dept. of National Defense: Centre for Operational Research and Analysis (Co-op)

May 2006–Aug 2006

Programmer/Analyst

- Developed a Discrete Event Simulator framework for simulating the failures and repairs of equipment as well as the acquisition and distribution of equipment throughout the supply chain.

Google Inc.

May 2006–Sept 2006

Summer of Code Participant for Pidgin

- Created an extension to Pidgin, an open-source instant messaging client, called “Contact Availability Prediction” that would monitor events caused by contacts in a users buddy list and attempt to predict their availability (peak online times, probability of them responding).

EDUCATION

Carleton University

2007– ? (Post-poned)

Masters of Computer Science

- Research Assistant Grant (\$5000/year – 2 years)
- 10.8/12 GPA

Carleton University

2002–2007

Bachelor of Computer Science: Software and Computing

- Nortel Networks Scholarship (2002)
- Graduated with High Honours

Brampton Centennial Secondary School

1997–2002

- Ontario Scholar (2002)
- Academic Letter (2002)
- Mathematics Award (2002)
- The Ontario Association of Physics Teachers Achievement Award (2002)

SKILLS

- Languages: C/C++, Objective-C, Java, Python, Scheme
- Operating Systems: Mac OS X, Linux, Windows 95/98/XP
- Software: Xcode, Eclipse, SVN/CVS, Visual Studio, GCC

PROJECTS

- Cocoa/Objective-C Templating Engine
 - Created an open-source templating engine framework for use in Objective-C code bases.
- Data Detector Framework

- Cocoa/Objective-C framework for analyzing text data and extracting dates, times, phone numbers, addresses, etc. and giving the user an easy to use interface for scheduling tasks, modifying the address book, and so on.
- Ant Colony TSP/ATSP Solver
 - Final project for Artificial Life course. AS-TSP, ACS-TSP, MaxMin-AS variations.
- Approximated Betweenness Centrality in Large Scale Social Networks
 - Research project utilizing a cluster to calculate approximated betweenness centrality on a large scale social network.
- Honours Project – Semantic Social Instant Messaging via XMPP
 - Research the ability to build social networks using existing instant messaging networks and form friend-of-a-friend graphs.
- DashboardX
 - An enhancement to desktop search technology. Goal of the project was to show users relevant information related to their current task. The application required the creation of a central server component, the design of a communication protocol, the integration with desktop search technology and application plug-ins.
- Naïve Bayes Decision Trees
 - A data-mining application that built decision trees. Implemented the application to use the Naïve Bayesian algorithm to compute the most likely values for missing data.

VOLUNTEER EXPERIENCE

Carleton Computer Science Society

Sept 2006 – Apr 2007

General Executive

- Organized programming competition for first year orientation
- Planned and organized biweekly departmental social event
- Assistance with setting up and maintaining Nexus

Carleton New University Government (NUG)

2007

Computer Science Representative

- Vote on issues affecting students academic life at Carleton
- Act as a liaison between students and NUG and Computer Science faculty