

Justin Pincar

Campus Address
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SKILLS

Coding Languages: C/C++, Java/JSP, Visual Basic (and ASP.NET)
Scripting Languages: HTML/CSS/AJAX, PHP/MySQL, Perl, Ruby/Rails, LaTeX
Specialized Software: Photoshop, Illustrator, Dreamweaver, Flash, Visio, CVS, SVN

EXPERIENCE

CERT/CC - Secure Coding Initiative team member
Developed hundreds of secure coding rules for C/C++/Java
<https://www.securecoding.cert.org/>
Developed and proposed technical additions to the ISO-C standard
Helped develop secure string and integer libraries for C
Static analysis development
Extended Compass/ROSE to automate vulnerability detection

UPMC - Efficiency Engineering
Worked on a project to digitize current dermatopathology procedures
Led contextual inquiries and generated vast array of HCI models

University Wire - Facebook clone
Developed an MVC-structured system to unite university groups and events

mathtutor - Online cognitive tutor (In progress)
Worked with a team to explore and develop social features
Conducted contextual inquiries and generated HCI models

MyCampus PeopleFinder - Cell phone application
Uses triangulation to provide location of buddies
Implemented a rules-based multi-user permissions system
<http://www.contrib.andrew.cmu.edu/~jpincar/pf/>

MusicGalore.net - Streaming Music Website (~2 million songs)
Extended and optimized web application for heavy load
Alexa Rank ~20,000, Google PR4, ~2k transactions/second
*This project has been abandoned due to legal issues

CMU Undergraduate CS Website - Team Leader
Designed a system to manage conference registrations and submissions
<http://www.cs.cmu.edu/ourcs/>

NetReg - Network Registration/Network Monitoring
Analyzed existing system for security vulnerabilities

Dog-Email.com / Kitt-Email.com
Designing and coding website to send emails from the persona of pets

Skynet Securities
Designed and implemented system to keep track of securities
Unsupervised, automatically fetches updates daily
Recalculates due to dividend payments and splits

WebSteg
Steganography application with an online interface

Miscellaneous
HTTPView - Web application to diagnose HTTP connections
Perl AIM - An AIM client and chat-bot written in Perl
rFactor - Self-developed algorithm to factor numbers non-numerically

HONORS Recipient of Small Undergraduate Research Grant (SURG)
Researched cost-effectiveness of distributed computing clusters
Pennsylvania Governor's School for Information Technology
Placed 1st in team programming competition
Led workshops on Perl, RegEx, CSS, and HTML
Recipient of CMU's Judith Resnik Scholarship

ACTIVITIES Sigma Nu Fraternity
Recorder - Member of the Executive Council
Inter-fraternity Committee representative
LEAD committee co-chair (fraternity leadership training)
Lambda Sigma Honor Society (community service organization)
StuCo Teacher: The Power of Perl
Eagle Scout (Order of the Arrow)

EDUCATION **Carnegie Mellon University**, Pittsburgh, PA
Senior in Computer Science, Class of May 2009
Double Major in Human-Computer Interaction
GPA: 3.24/4.00

Relevant Courses

05-395: Applications of Cognitive Science
05-410: Human Computer Interaction Methods
05-430: Programming Usable Interfaces (VB.NET)
05-431: Software Architecture for User Interfaces (Java SWT)
05-571: Undergraduate Project in HCI (Ruby/Rails)
15-113: System Skills in C (C)
15-200: Advanced Programming/Practicum (Java)
15-211: Fundamental Data Structures and Algorithms (Java)
15-212: Principles of Programming (ML)
15-213: Introduction to Computer Systems (C, x86 ASM)
15-251: Great Theoretical Ideas in Computer Science (Java)
15-392: Secure Programming (C)
15-418: Parallel Computer Architecture and Programming (C, using OpenMP and MPI)
15-421: Web Commerce, Security, and Privacy (Java, OWL)
15-437: Web Application Development (Java/JSP)
15-441: Computer Networks (C)
15-446: Distributed Systems (C, Perl, Java [inc. RMI and XML-RPC])
15-451: Algorithm Design and Analysis (C)
15-681: Machine Learning (C)
18-487: Introduction to Computer & Network Security & Applied Cryptography (C)
51-262: Communication Design Fundamentals
51-422: Visual Interface
70-415: Introduction to Entrepreneurship

Computing Technology Industry Association (COMPTIA)

Certified Professional:
A+ Core Hardware
A+ OS Technological