

CHRISTOPHER CYLL

EDUCATION

Williams College ('00 - '04) – B.S. in Computer Science with Honors

University of Edinburgh, Scotland (Jan '03 - May '03) – Study Abroad

SKILLS

Languages C, Java, Perl, Python, Ruby, SQL. Experience with many others.

Software Apache, Eclipse, Emacs, J2ME, LaTeX, Linux, MySQL, PostgreSQL, Ruby on Rails.

Writing **BOOK** – *Practical Ruby Projects: Ideas for the Eclectic Programmer* (Apress, 2008).
ARTICLE – “If It’s Not Nailed Down, Steal It: Pattern Matching, S-Expressions, and Domain Specific Languages in Ruby” (*Artima’s Ruby Code and Style*, 2006)

Strengths **BROAD TECHNICAL BACKGROUND** – big data, concurrency, distributed programming, mobile phones, networking, programming languages.

COMMUNICATION – extrovert, speaker at programming user groups.

HIGH VELOCITY CREATIVITY – National Novel Writing Month (50,115 word novel in 16 days), National Album Recording Month (32 minute album in 31 days)

EXPERIENCE

Software Engineer ('08 - Present) – Tsumobi, Founding Team

As part of the Tsumobi founding team, I built a runtime for desktop and mobile phone applications designed for distributed applications, self-healing software, live updates, and cross platform compatibility. On that foundation, I built Tsumobi's peer-to-peer sharing application, Skynet Loves You. In the process I wrote compilers, virtual machines, peer-to-peer routing systems, databases, and social phone applications. I gained expertise in asynchronous IO, event driven code, the Actor model, and distributed programming. As a near-founder, I was also responsible for organizing software releases, coordinating projects, communicating with customers, and evolving the company.

Software Engineer ('07 - '08) – Adverplex, Tools and Infrastructure Team

Adverplex leverages algorithms, probability theory, and combinatorial optimization to precisely manage hundreds of thousands of diverse, paid text ads (like Google AdWords) for its clients. I worked on the systems that connect Adverplex to major ad space providers (Google, Yahoo, MSN). This includes our campaign management infrastructure, the data-access layer over Adverplex's multi-terabyte database, and the web-console for fine-tuning campaigns.

Software Engineer ('04 - '07) – Intel Corporation, Oregon CPU Architecture Team

As a member of the Architecture Performance Team for the next generation Intel CPU, I developed and maintained tools to analyze and visualize performance data in Ruby and Perl. I also gained experience working with multi-gigabyte data sets and using a 6000 machine compute cluster. In addition, I provided software development expertise to a variety of projects including microcode tools, project management tools, multithreaded memory consistency tests, and database management.

Honors Thesis Student, Research and Teaching Assistant ('01 - '04) – Williams College

As a thesis student, I built a cache conscious dynamic memory allocator for C that reorders memory allocations using profiled data and demonstrates a significant speedup for certain classes of programs.

I served as a teaching assistant for five semesters to over 150 students and spent summers as a research assistant working on projects modeling RoboCup soccer, connecting a Scheme based web front end to the RenderMan photorealistic renderer, and model checking the experimental Little-JIL language.