

TOPHER CYLL

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LOOKING TO

Grow revenue, solve problems, recruit teams, manage engineers, and develop software.

OVERVIEW

- Languages** C, Go, Java, Javascript, Python, Ruby, SQL. Experience with many others.
- Tools** AWS, Emacs, Git, Kafka, Linux, MySQL, PostgreSQL, Redis, Redshift, Ruby on Rails.
- Author** *Practical Ruby Projects: Ideas for the Eclectic Programmer* (Apress, 2008).
- Startups** Recruiting engineering teams, minimum viable products, A/B testing, opportunity estimation, funnel optimization, BI.
- Topics** Scaling, microservices, web dev, big data, networking, programming languages.
- Fun** Forth implementation (slightly buggy ;-)) for DCPU-16 virtual processor using custom macro assembler in Ruby. Resolution independent HTML5 Android game using PhoneGap.

EDUCATION

Williams College – B.S. in Computer Science (2000 - 2004)

EXPERIENCE

Cognius – CTO, Co-founder (Feb 2013 - Present)

- Founded Cognius as incubated spin-out from Cogo Labs.
- Grew revenue from \$0 to TTM \$10+MM, with multiple 2X growths directly attributed to engineering.
- Recruited our nine-member engineering department from scratch.
- Promoted hires internally to VP of Eng, Director of Eng, Lead Engineer, and Principal Engineer roles.
- Developed major parts of our original product and prototyped strategic changes.
- Moved systems to scalable AWS infrastructure from managed colo.
- Transitioned our systems from a monolithic codebase toward a microservices architecture.
- Scaled to 1B events/day in BI pipeline and 30MM reqs/day for real-time job recommendations.
- Tech: Ruby, Python, Scala, MySQL, PostgreSQL, Redshift, Redis, Kafka, Influx, Elasticsearch, AWS.

Cogo Labs – Director of Product Engineering (Sept 2010 - Feb 2013)

- Re-recruited back into CogoLabs to run Product Engineering.
- Hired nine-member Product Engineering group from scratch.
- Built, launched, validated, and grew minimum viable businesses for Cogo Labs.
- Worked in multiple major industries: staffing, automotive, insurance, personal finance, daily deals.
- Two of my projects became profitable, ongoing business units, including Cognius (see above).
- Built autos-focused ad network and brought in the first \$3MM ARR of customers as sales engineer.
- Tech: Ruby, Rails, Python, MySQL, Redis, and Nginx.

Tsumobi – Founding Software Engineer (July 2008 - Sept 2010)

- First hire at Tsumobi, joining two founders just after seed funding.
- Built a runtime for desktop and mobile phone applications designed for distributed applications, self-healing software, live updates, and cross platform compatibility.
- Using that foundation, built Tsumobi's peer-to-peer sharing application, Skynet Loves You.
- Wrote compilers, virtual machines, peer-to-peer routing systems, databases, and social phone apps.
- Heavy use of asynchronous IO, event driven code, the Actor model, and distributed programming.
- Organized software releases, coordinated development projects, and communicated with users.
- Tech: Java, JavaME, JavaFX, Ruby.

Cogo Labs – Senior Software Engineer, Tools and Infrastructure (Jan 2007 - July 2008)

- Rebuilt ad management systems to precisely manage hundreds of thousands of paid text ads.
- Supported quantitative ad campaigns to acquire users for incubated businesses via Google, Y!, MSN.
- Built data-access layer of Cogo Labs' multi-terabyte (remember in 2007, this was huge!) database.
- Built web-console for fine-tuning campaigns.
- Tech: Python, Pylons, MySQL.

Intel – Senior Software Engineer, CPU Architecture (July 2004 - Dec 2007)

- Developed tools to analyze performance of next generation Intel CPU.
- Processed and aggregated modelling data generated on 6,000 machine compute cluster.
- Optimized microcode build system bringing build time down from 20+ min to 30 seconds.
- Wrote multithreaded memory consistency tests to validate cycle accurate CPU simulators.
- Built system to remind entire Oregon CPU Arch Team of all tracked issues and deadlines.
- Tech: Ruby, Perl, MySQL, SCONS, Make.