Benjamin Scher Purcell

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Skill Highlights

- Expertise in C, Java, C#, Perl, Ruby, and x86-64 assembly.
- Agile/Scrum methodology.
- API design.
- Performance optimization.
- Expert at understanding and maintaining legacy code and reducing technical debt.

Career Experience

- **Backstop Solutions Group**—Chicago, IL
  Software Engineer: April 2015–Present
  - Provided Java/C# development expertise with an emphasis on performance optimization.
  - Worked in multiple languages/paradigms: Java enterprise hosted application as well as two installed Windows C#/WPF applications.

- **IPsoft Inc.**—Chicago, IL
  Devops Automation Engineer: October 2014–April 2015
  - Provided operations and engineering expertise to automate systems deployment, management and monitoring for Fortune 500 level corporations.

- **WiredTree Managed Hosting**—Chicago, IL
  Supervisor of Technical Support: September 2013–October 2014
  - Supervised teams of 3-5 support administrators and set system administration policies.
  - Provided expertise in creating deployment, automation, and monitoring software for in-house use.

- **The Academic Approach**—Chicago, IL
  Mathematics Curriculum Writer: October 2012–September 2013
  - Crafted mathematics curriculum for Chicago Public Schools and charter schools.
  - Provided expertise in writing formatting macros and packages for published curriculum materials.

Education

- **Oberlin College**—Oberlin, OH
  Bachelor's Degree in Mathematics: September 2002–December 2006
  - Graduated magna cum laude with an honor's thesis on the category theory of groups.
  - Completed original research in number theory—published in *The Fibonacci Quarterly* Volume 45, Number 3, August 2007.

Personal Achievements

- Completed highly optimized regular expression matching library—currently included in Plan 9 operating system.
- Implemented numerous synthetic network filesystems.
- Created C programming language extension that provides concurrency operations as part of the compiler.

Please view samples of my personal work at `https://github.com/spewspew`