

Forrest W. Parker, Ph.D.

Portland, OR	forrestwparker.com
(541) 250-0061	GitHub.com/forrestwparker
forrestwparker@gmail.com	LinkedIn.com/in/forrestwparker

Experience Summary:

- Performed full-stack development for a web-based application utilizing C#, HTML, CSS, JavaScript, jQuery, and C# Razor syntax
- Wrote new GAP functions that produced new mathematical results that were used as part of my Ph.D. dissertation
- Taught several courses required for students pursuing an undergraduate degree in computer science at Oregon State University

Skills Summary:

- Programming: C#, Python, HTML, CSS, JavaScript, jQuery, LaTeX, and GAP
- IDE: MS Visual Studio 2015
- Frameworks: Entity Framework, ASP.NET MVC
- Databases: MS SQL Server 2012, SQLite, MySQL, and T-SQL
- Version Control: Git, GitHub, and TFS

Professional Experience:

[Prosper IT Consulting](#), Portland, Oregon

10/2016 – 02/2017

Full-stack Development Intern

- Worked on a team tasked with developing blueribbonsreview.com (BRR) utilizing the SCRUM project management methodology
- Enhanced the front-end of BRR utilizing HTML, CSS, JavaScript, jQuery, and C# Razor syntax to improve user experience and provide access to new administrative tools
- Developed back-end of BRR using C# and ASP.NET MVC to implement new administrative functionality
- Modified site database by using Entity Framework code-first migrations
- Wrote functionality capable of retrieving and parsing XML and JSON data from online retailers (Ebay, Walmart, and others) via the use of RESTful APIs
- Worked with Team Foundation Server for source control

[Oregon State University](#), Corvallis, Oregon

09/2009 – 06/2016

Graduate Teaching Assistant

- Lead courses focused on a variety of mathematical topic, including a few required for undergraduates pursuing any one of a variety of STEM degrees
- Developed lectures and assignments intended to facilitate the education of students
- Evaluated student performance in a manner consistent with department and university standards for academic achievement

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Student Employee

- Migrated a mathematics textbook source file from one that utilized multiple formatting languages into one consisting only of LaTeX
- Searched for and corrected numerous typos and formatting errors
- Verified the correctness of solutions to all examples and exercises or made corrections when necessary
- Improved the wording of poorly phrased examples and exercises

Education:

- [The Tech Academy](#), Portland, Oregon
Graduated
Underwent intensive training in a range of courses which included:
Fundamentals of Computer Science, HTML, CSS, JavaScript, jQuery, Python, C#, relational database design and management, SQL programming, Visual Studio, .NET, and Version Control usage and concepts.
- [Oregon State University](#), Corvallis, Oregon
PhD, Mathematics (2017)
MSc, Mathematics (2012)
Completed courses that provided a rich understanding of a diverse range of mathematical topics; Ph.D. dissertation relied in part on computations made using several new functions written in the GAP programming language.
- [California State University, Stanislaus](#), Turlock, California
BSc, Mathematics (2008)
Completed courses that provided a basic understanding a range of mathematical topics, including real- and complex-analysis, set theory, number theory, linear algebra, probability theory, game theory, operations research, group theory, ring theory, and field theory.

Publications and Acknowledgments:

- [Forrest W. Parker, *Shift Dynamics of Cyclically Presented Groups with Length Four Positive Relators* \(Dissertation\)](#)
- [Forrest W. Parker, *Tools for Cyclically Presented Groups* \(Software\)](#)
- [William A. Bogley and Forrest W. Parker, *Cyclically presented groups with length four positive relators*, arXiv: 1611.05496 \[math.GR\] \(Preprint\)](#)
- [John W. Lee and Stephen D. Scarborough, *Matrix and Power Series Methods, Fifth Edition* \(Contributor\)](#)