

# Forrest W. Parker, Ph.D.

Portland, OR  
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[forrestwparker.com](http://forrestwparker.com)  
[GitHub.com/forrestwparker](https://github.com/forrestwparker)  
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## Experience Summary:

- Performed full-stack development of a web-based application utilizing C#, HTML, CSS, JavaScript, and jQuery
- Wrote several functions in the GAP programming language to facilitate mathematics research of cyclically presented groups
- Lead several courses required for students pursuing STEM undergraduate degrees at a U.S. Department of Education accredited 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](http://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 topics and of which some were required by undergraduate students pursuing any of a variety of STEM degrees
- Developed lectures and assignments intended to facilitate student learning and understanding of course content
- 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 to one using only LaTeX
- Searched for and corrected numerous typos and formatting errors
- Evaluated the phrasing of all examples and exercises, making edits as necessary to remove potential sources of ambiguity and uncertainty of desired solutions
- Verified the correctness of all provided solutions to examples and exercises, making edits as necessary to remove any errors

## 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 concepts and usage.
- [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 proved the existence of a relation between the algebraic and geometric properties of a class of cyclically presented groups; Wrote several new functions in the GAP programming language to facilitate similar research as performed for my dissertation.
- [California State University, Stanislaus](#), Turlock, California  
BSc, Mathematics (2008)  
Completed courses that provided an in-depth understanding of a range of mathematical topics.

## Publications and Acknowledgments:

- [Forrest W. Parker, \*Shift Dynamics of Cyclically Presented Groups with Length Four Positive Relators\* \(Ph.D. dissertation\)](#)
- [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\* \(Contributor\)](#)