

Forrest W. Parker, Ph.D.

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[GitHub.com/forrestwparker](https://github.com/forrestwparker)
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Experience Summary:

- Performed full-stack development for a web-based application utilizing C#, HTML, CSS, jQuery, and Razor.
- Wrote original code that produced results that were used as part of my Ph.D. thesis.
- 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 – 2/2017

Full-stack Development Intern

- Worked on a team tasked with developing blueribbonsreview.com (BRR) utilizing the SCRUM project management methodology
- Improved front-end of BRR utilizing HTML, CSS, JavaScript, jQuery, and Razor 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 marketplaces (eBay, Wal-Mart, and others) via the use of REST APIs
- Worked with Team Foundation Server for source control

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

09/2009 – 06/2016

Graduate Teaching Assistant

- Prepared and delivered lectures on a broad range of mathematical topics including combinatorics, graph theory, linear algebra, among several others.
- Developed and evaluated student assignments and exams for quality consistent with department and university standards that included evaluating the numerical accuracy, coherency, and appropriate usage of terminology.
- Lead a course for graduate students designed to prepare them for taking the mathematics department PhD qualifying exam.

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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 wide range of mathematical fields, including real- and complex-analysis, measure theory, group theory, ring theory, field theory, module theory, differential geometry, coding theory, cryptography, probability theory, point-set topology, differential topology, and algebraic topology; Ph.D. thesis relied in part on computations made using new code 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* \(Thesis\)](#)
- [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* \(Contributor\)](#)