

Forrest W. Parker, Ph.D.

Software Engineer

Portland, OR

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Skills:

Programming: C#, Python, HTML, CSS, JavaScript, jQuery, LaTeX, and [GAP](#)

IDE: MS Visual Studio 2015, 2017

Frameworks: Entity Framework, ASP.NET MVC

Databases: MS SQL Server 2012, T-SQL, MySQL, SQLite

Version Control: Git, GitHub, TFS

Projects:

BlueRibbonsReview.com (See: [GitHub](#))

- Wrote code in HTML, CSS, JavaScript, jQuery, and C# (including C# Razor syntax)
- Developed code to retrieve and parse JSON- and XML-formatted data obtained by consuming RESTful APIs
- Modified the site database using Entity Framework code-first migrations
- Worked with Team Foundation Server to handle source control

[Tools for Cyclically Presented Groups](#)

- Wrote code in GAP
- Independently created code for analyzing mathematically interesting properties of cyclically presented groups (meeting sufficient criteria)

Experience:

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

10/2016 - 02/2017

Full-stack Web Development Intern

- Worked on a team tasked with developing BlueRibbonsReview.com utilizing a SCRUM project management methodology
- Designed and restructured the back-end of the site to enable it to feature products from more than one online retailer
- Developed code to utilize product APIs maintained by new affiliates including Ebay, Walmart, Etsy, and FlipKart
- Designed and implemented a new system to standardize product categories for products from all retailers across the site
- Designed and implemented a feature that would automatically update product prices and provide notifications to site administrators in certain circumstances

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

09/2009 - 06/2016

Graduate Teaching Assistant

- Lead courses that focused on a variety of mathematical topics, including several that are required by students pursuing undergraduate 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

Forrest W. Parker, Ph.D.

Software Engineer

Student Employee

- Migrated a mathematics textbook source file from one that utilized multiple formatting languages to one using only LaTeX
- Identified and corrected numerous typos and formatting errors
- Evaluated the phrasing of all examples and exercises, making edits as necessary to remove ambiguity and clarify the types of expected solutions
- Verified the correctness of all provided solutions to examples and exercises, making edits as necessary to remove errors

Education:

[The Tech Academy](#), Portland, Oregon

Full-stack Web Development Certification (2017)

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)

Developed new functions in the GAP programming language to facilitate similar research as in my doctoral dissertation; Dissertation proved the existence of a relation between the algebraic and geometric properties of a family of cyclically presented groups; Acquired an enriched understanding of a variety of mathematical subjects including Linear Algebra, Graph Theory, and Combinatorics.

[California State University, Stanislaus](#), Turlock, California

BSc, Mathematics (2008)

Gained an in-depth understanding of a broad range of mathematical topics.

Publications:

[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* \(Contributor\)](#)