Forrest W. Parker, Ph.D.
Software Engineer

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

Skills:

    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

Projects:

BlueRibbonsReview.com (Link: 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
- Used an MVC architectural pattern to develop front-end access to enhance site usability
- Worked with Team Foundation Server to manage source control

Tools for Cyclically Presented Groups
- Wrote code in the GAP programming language
- Independently developed 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 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 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 (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 performed for my dissertation; Ph.D. dissertation proved the existence of a relation between the algebraic and geometric properties of a class of cyclically presented groups; Developed an enriched knowledge of several 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)