Forrest W. Parker, Ph.D.

Software Engineer

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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 Develpement 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 done 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)