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> Console.WriteLine("Hello world!");

Education

San Diego State University

San Diego, CA

B.S. ASTROPHYSICS, MATHEMATICS MINOR

May 2016

· Coursework included training in scientific computation, procedural and object-oriented programming, advanced mathematics and physics, data structures, and numerical algorithms

Experience __

Freelance Software Development

Sacramento, CA

May 2017 - Present

WEB APPLICATION ENGINEERING

- · Developing applications for clients written in C# with ASP.NET Core using both MVC and SPA web architectures
- Utilizing frontend technologies in Angular 2+, Typescript, and Bootstrap4
- · Leveraging .NET CMS frameworks to customize client websites to support ongoing media creation
- Deploying software projects using Azure while providing continuous integration and development to clientele

Engility Corporation

Sacramento, CA

OPERATIONS RESEARCH ANALYST

Sept. 2016 - May 2018

- · Provided contractor support for SPAWAR 1.0 Finance Division in the form of data analysis and systems engineering
- Performed regression analysis and statistical programming in R on select datasets
- Extensively used of Excel and R for data reporting and high level graphical analysis and exploration
- · Wrote Visual Basic within Excel to perform spreadsheet specific functionality to assist with algorithmic computation
- · Built databases in Access for in depth analysis of data to further query and manipulate with SQL

Mathnasium San Diego, CA

LEAD MATH INSTRUCTOR

Aug. 2014 - Sept. 2016

- Taught mathematics from pre-algebra to calculus and differential equations
- Oversaw up to 30 students while maintaining a productive learning environment
- · Worked within a classroom environment to enhance student grades and mathematical intuition

Skill Set ____

Projects

Programming & Scripting Languages

COMPETENCY IN OBJECT-ORIENTED AND PROCEDURAL DESIGN:

- Proficient in: C#, JavaScript, HTML5/CSS3, SQL, R, VBA
- Knowledgeable in: Python, Java, Fortran, Bash, C/C++

Libraries, Frameworks & Databases

KNOWLEDGE & CONTINUAL STUDYING OF:

- Web: ASP.NET Core, ¡Query, Bootstrap, Angular/TypeScript
- Web Tech/Design: MVC, SPA, AJAX, REST, JSON, XML
- Databases: SQL Server, Entity Framework Core, T-SQL
- Unit Testing: NUnit, MS Test

Operating Systems & Development Environments

KNOWLEDGE OF RELEVANT TECHNOLOGIES:

- OS: macOS, Windows 7/8.1/10, and Linux (Ubuntu)
- Editors: Rider/ReSharper, Visual Studio, VS Code
- Tech: UNIX command line, Git, Postman
- · Cloud Platforms: Heroku. Azure

Web Applications

LISTED ON GITHUB AND PORTFOLIO SITE:

- Budget analyzer for Sacramento built with ASP.NET Core and SQL Server
- Beer/brewery DB built with ASP.NET Core, Angular 4, and BreweryDB API
- Craft brewery statistics app built with Angular and the ZingChart JS library
- Portfolio website built with HTML5/CSS3, JavaScript, and jQuery

Data Analysis and Photometry of Binary Star V40 in NGC 7789

SENIOR THESIS PROJECT:

- Performed data reduction of V40 binary using astronomical software (IRAF)
- Wrote analyses scripts in Fortran to compute binary light curves
- Worked in Ubuntu with terminal CLI for basic system administration

Computational Exploration of the Semi-Empirical Mass Formula

NUCLEAR PHYSICS FINAL PROJECT:

- Used the SEMF to calculate binding energies of atomic nuclei
- Wrote data analysis code and simple sorting scripts in Fortran
- Used GNU graphical software to replicate shell model structure