

Patrick Hennecke

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Relevant Employment

SolExergy

Full Stack Developer

February 2020 - July 2021

- Sole developer with no prior professional experience - which led to thorough research and education for myself about the job and how to get the job done and in addition, assuring the CEO that I can complete the project in a timely manner
- Designed and created cloud based mobile app for internal project management and reported directly to the CEO
- Familiarized and utilized architectures such as MVC and MVVM along with multiple other database support tools pertaining to the use of SQL, Entity Framework, Azure, and more
- Create, manage, update, and test front end mobile application (Xamarin forms - Xaml & C#) and back end (C#, Entity Framework, .Net)
- Multiple releases of iOS app to TestFlight

University of Texas at Arlington

Research Assistant

May 2022 - May 2023

- Data Science for IDIR Labs

Teaching Assistant

August 2022 - December 2022

University of New Mexico

Teaching Assistant

August 2016 - May 2017

- Grading various Undergraduate Math coursework - Algebra, Differential Equations and Probability & Statistics

Angelo State University

Math Tutor

January 2013 - August 2016

- Tutored in all Undergraduate Math courses - Calculus I & II, Differential Equations, Prob. & Stats, Real Analysis, Business Calculus, College Algebra, Trigonometry, Pre-Calculus, Contemporary Mathematics, Discrete Mathematics, Linear Algebra, Engineering Dynamics, Physics I & II and Chemistry

Student Assistant

August 2015 - May 2016

- Assist in teaching MatLab and the utilization of basic algorithms, such as, polyfit - to fit a line to a criteria

Education

University of Texas at Arlington

Master of Science in Data Science

May 2023

GPA: 3.75

Relevant Research: No publications

Research IDIR lab with Dr. Chengkai Li

University of New Mexico

Some grad level Applied Math coursework

Angelo State University

Bachelor of Science in Mathematics

May 14th, 2016

Minor: Physics

Relevant Research: No publications

Research in Complex Analysis with Dr. Trey Smith

Research in Battery Technology with Dr. Andrew Wallace

Languages, Technologies & Concepts

- Python (3 year) -
Pandas, Numpy, Scikit-learn, and Flask
- SQL (1.5 year)
- R (1 year)
- C++ (1 year)
- C# (2 year)
- Matlab (6 year)
- L^AT_EX(3 year)
- Xaml (2 year)
- HTML (0.5 year)
- CSS (0.5 year)
- KNN, SVM, CNN, RNN, Linear and Logistic Regression, Gradient Descent and more
- Git
- Azure
- Object Oriented Programming
- CI/CD
- .Net
- MVVM
- MVC
- Entity Framework