Tyler Gorshing
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Work History

Software Developer HealthcareIP *2020*

Results: Customized interactive UI and service features using JavaScript, HTML, and CSS to meet specific customer needs • Created visual documentation and code annotations to assist in development and customer service • Located and exterminated bugs resulting in more efficient code and better customer experiences

Tasks: Maintained and developed for a full-stack web application built on PHP, MongoDB, and the jQuery library • Wrote, debugged, and tested well commented and efficient code • Used Microsoft Teams, GitLab, and custom-built software to facilitate communication and coordinate software development and company priorities

Skills: JavaScript, Python, HTML, CSS, Git, Unix/Linux, Bash and Shell scripts

AP Calculus Teacher Weatherford High School *2017-2019*

Results: Increased the student pass rate on the AP Calculus exam by more than 9 times • Acquired College Board certification for a custom designed AP curriculum • Trained students who won 1st and 2nd place at the highly competitive Southwest Interscholastic Meet on the "Modern Math" exam

Tasks: Guided students through the process of building conclusions from first principles to develop a fundamental understanding of concepts in advanced mathematics • Maintained a robust organization system to track student performance, record ongoing communications, and ensure proper adherence to district and state policies and curricula

Skills: Management, Mathematical reasoning, Critical thinking, Standards compliance, Decision making

Math Teacher Classen School of Advanced Studies *2015-2017*

Results: Secured a $2,500 grant, providing students with technology and opportunities to learn computing and programming skills • Rated "Highly Effective" in periodic performance reviews by peers and administration • Achieved greater than 95% student pass rate on the Oklahoma standardized math exams

Tasks: Designed weekly presentations using whiteboards, props, and Microsoft PowerPoint slide shows with text and graphics to clearly present math lessons • Coordinated lesson plans and confidential student records with parents and administration to ensure support for each student's learning • Fostered empathetic relationships with 150 middle and high school students to build trust and compassion ensuring everyone feels safe and respected in the classroom

Skills: Interpersonal communication, Microsoft Office 365, Google Suite, Organizational systems

Education & Academics

Bachelor of Science Southwestern Oklahoma State University *2015*

3.92 GPA *Summa Cum Laude* Math Major, Music Minor

"On the Center of Non-Relativistic Lie Algebras" Rose-Hulman Undergraduate Math Journal *2015*

Results: Authored a paper published in The Rose-Hulman Undergraduate Mathematics Journal (Spring 2015) • Won 2nd place cash award for best presentation at the 2014 Mathematical Association of America Oklahoma-Arkansas section meeting • Secured $750 in academic grants to fund research and allow for travel

Tasks: Developed an understanding of advanced concepts in the field of linear algebra • Employed classical and modern techniques to prove novel discoveries • Traveled to conferences to present findings to experts and academics

Skills: Logic and Deductive Reasoning, Technical Communication, LaTeX, Public Speaking, Active Learning

"Surface Classification" SWOSU Math Seminar *2014*

Results: Gave an hour long seminar exploring the topology of manifolds • Presented Conway's zipper proof of the Surface Classification Theorem

Tasks: Researched common concepts and proofs in the field of Algebraic Topology • Employed classical and modern techniques to prove novel discoveries • Traveled to conferences to present findings to experts and academics

Skills: Higher dimensional reasoning, Independent Study, Active Learning