STEPHEN NEWBY

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♦ TULSA, OK ♦ Software Engineer ♦ (918)927-0060

EDUCATION

Atlas School Tulsa, OK
Diploma in Computer Science and Linux, Advanced Algorithms, and Blockchain December 2025
The University of Tulsa Tulsa, OK
Master of Business Administration May 2017
Carnegie Mellon University Pittsburgh, PA
Bachelor of Science in Materials Science and Engineering May 2009
Double Major in Biomedical Engineering

WORK EXPERIENCE

Atlas School Tulsa, OK
Student Tutor January 2025 – Current
A peer and project-based 20-month software engineering school in Tulsa, Oklahoma. The curriculum began with the fundamentals of software engineering, low-level and high-level languages, and worked up to advanced low-level engineering.

- Aid in the teaching of core computer science and software engineering concepts
- Perform Live Code Events of in-depth presentations on various coding topics
- Tutor students directly one-on-one that need specific help

Community Food Bank of Eastern Oklahoma Tulsa, OK July 2016 – August 2016
Employee Development Intern

- Developed an Employee Development Program including assessment, mentor, and speaker programs

Jim Norton Toyota Tulsa, OK May 2013 – February 2014
Bilingual Sales Consultant, New Cars
Judy's Tax Accounting Tulsa, OK December 2010 – Current
Bilingual Tax Preparer

- Processed periodic payroll and reports for small businesses
- Assisted clients in filing their individual and business taxes
- Tabulated revenue and expense figures for small businesses
- Trained new employees via direct training and mentoring

Latrobe Specialty Steel Latrobe, PA May 2008 – August 2008
Metallurgical Engineering Intern, Metallurgical Engineering Department

- Created a VIM/VAR history for quality comparison with new VIM/VAR for aerospace certification
- Analyzed faulty test pieces for fracture mode using SEM and reported results

SKILLS & TECHNOLOGIES

Spoken Languages: English and Spanish
Programming Languages: Proficient in C, Python, Bash, and Git. Familiar with Assembly, C#, C++, Java, JS, SQL, MySQL, HTML, and CSS.
Software: VS Code, MS Office, MS Project, MATLAB
Industry Standards: American Society for Testing and Materials (ASTM), American Society of Mechanical Engineers (ASME)

PROJECTS

Shell V2 https://github.com/TheSnewby/atlas-shell_v2 Spring 2025

- Implemented a C-based shell supporting piping, redirects and built-in commands.

Hack Sprint https://github.com/TheSnewby/atlas-T2_Hack_Sprint Winter 2024

- Led and designed a game inspired by Oregon Trail and DOOM using Python and pygame.

AirBnB Clone https://github.com/TheSnewby/atlas-AirBnB_clone_v4 Winter 2024

- Created an AirBnB clone that had an interactive webpage with HTML/CSS frontend that pulled from an API using a Flask framework in Python with MySQL.

Economic Evaluation of Energy Assets, *Chevron Gorgon Project* Spring 2017

- Assessed the economic outlook of LNG project with real dollar and sensitivity analysis.

International Business, *Cross Expansion of Automotive Markets with South Korea* Spring 2017

- Appraised the South Korean and American automotive markets for possible openings for cross expansion.

Business Applications, *Preston Water Department* Fall 2016

- Build a capital budgeting plan for a rural water department.
- Create feasibility plans for switching water sources.

MIS & Project Management, *Electronic Health Records* Spring 2016

- Led a team that created and proposed a business plan for a class company with a solid return on investment.

Material Science & Engineering Capstone, *Self-Cleaning Titanium* Fall 2008

- Characterized and presented multiple titanium finish functional properties for an exterior design firm.

Biomedical Engineering Design, *Skull Replacement System* Spring 2008

- Managed a team of five in designing a decompressive craniectomy containment system that interfaced with monitoring and liquid medicine delivery systems.