BRUCE TSOGT | 201-243-8032 | btsogt1971@gmail.com

Software engineer with multi-year experience in full stack development. Proven track record of designing and implementing robust web solutions in ASP.NET, driving mean 10% increase in project delivery speed. Strong background in ETL pipelines, data analysis, and data driven narratives, with a knack for drawing actionable insights through visualization.

SKILLS | TECHNOLOGIES

Lang, Frameworks	Web Tech	ORM, Databases	IDE, Testing, DevOps	Data + Automation	Other
ASP.NET Core, C#, Entity Framework Core, Flask, Java, Python	Angular 15, Bootstrap, CSS3, GSAP, HTML5, Javascript, Typescript	Azure Data Studio, PostgreSQL, SQLAlchemy, SSMS, SQL Server 2021	Agile (Scrum), Azure CI/CD, Docker, Git, JIRA, Moq, MS Test Visual Studio, VS Code	AstroPy, ChromeDriver, Gravitational, Matplotlib, NumPy, Pandas, PyTorch, SDSS, Selenium	Google Colab, Jupyter-Notebook, Prompt Engineering

PROFESSIONAL EXPERIENCE

Software Engineer • Batanugan LLC • Remote   **September 2021 – Present**

Developed and maintains customized patient management system modules facilitating key functions in a private clinic, including but not limited to automated generation of charges, automated generation of electronic prescriptions, and patient-end viewing of balances and electronic statements:

- Optimizes relational database models, data access layers, T-SQL queries, and stored procedures, providing patients with easy access to their information and allowing the clinic to fully digitize its record keeping. Facilitating a 25% increase in administrative processing speed as well as 15% increase in mean query speed, enabling quicker patient services.
- Consistently improves system modularity and scalability by implementing architectural practices like dependency injection, significantly reducing downtime for upgrades and facilitating quicker implementation of new features.
- Streamlined project delivery through AGILE methodologies, leading to an average of two week reduction in development cycle length.
- Implemented CRUD functionality with Repository and Unit of Work pattern for new modules, ensuring data integrity.
- Boosted patient engagement by designing responsive user interfaces, contributing to 100+ new sign ups within first quarter of launch.
- Updating internal documentation for custom libraries. Migrated business logic, data access, and web-specific codebase to .NET Core.
- Leverages Git for source code management and version control and Azure CI/CD for builds and continuous integration.
- Utilizes MS Test to unit test and Moq to mock methods. Tests APIs via Postman.

Learning Specialist • 2U, Inc. • Remote   **October 2021 – Present**

- Evaluates 7000+ student submissions for the Artificial Intelligence (AI) and Data Analytics bootcamps, providing constructive feedback on assignments. Identified common pitfalls which were later used to revise existing curriculum and class structure. Crafted highly customizable templates for grading assignments, increasing student engagement as evidenced by 8% increase in resubmission rate.
- Mentors students in learning to apply a spectrum of data engineering, analysis, and visualization related utilities, including machine learning technologies and Large Language Models (LLMs), driving continual uptick in student satisfaction metrics. Successfully increases employment rate in STEM fields among our bootcamp graduates by nearly 300% within year after graduation.

Software Engineer • Antra, Inc. • Remote   **June 2022 – November 2022**

Developed and enhanced key modules for a customer self-service portal, specifically implementing user authentication and authorization, functionality for viewing movie catalogues, as well as functionality for reviewing and rating in the catalogue:

- Leveraged Entity Framework Code to optimize multimedia content database and wrote new SQL queries to boost performance and scalability. This led to a 30% improvement in content retrieval times and reduced server load during peak traffic.
- Implemented robust user authentication and authorization using action filters and cookie-based authentication for enhanced security.
- Engineered interactive and responsive user interfaces for viewing, reviewing, and rating movies, increasing user satisfaction score by 3 points. Ensured data integrity and separation of concern using Razor view, view-bag, and view-model.
- Worked in an Agile methodology environment, participating in regular scrum meetings to plan, track, and organize development.

EDUCATION

Amherst College • Bachelor of Arts in Astronomy   **Amherst, MA**

- **Capstone Research Project: Multi-Week Observation of Star Cluster NGC 2264** – Measured month-long photometric variability in a sample of 42 'burster' T-Tauri Stars utilizing a remote deep-field telescope. Built custom data-ingestion, storage, validation, reduction, and analysis pipelines using SciPy, Pandas, AstroPy, Scikit-Image, Specutils, and PySpecKit Python Libraries to handle collected electromagnetic data and calculate rates of mass accretion from circumstellar disks. Visualized results using Python libraries such as Matplotlib, AstroPy, and Seaborn. Results presented as part of graduation evaluation.

ADDITIONAL INFORMATION

- **Angular Portfolio** – Constructed a dynamic portfolio website leveraging Angular's component-based structure, incorporating features like interaction, routing, and services. Utilized dependency injection to craft custom TypeScript theme functions and GSAP for responsive animations. Managed DOM responsiveness with media queries and decorators. Adhered to BEM methodology for structured SCSS styling.
- **Interests** – Weightlifting, Basketball, Building Custom PCs within strictly defined limitations, Reading, Video Editing
- **Language Skills** – English (Native/Bilingual), Mongolian (Native/Bilingual)