Timur Tripp

Software Engineer
Denver, CO
timur@timurtripp.com • linkedin.com/in/timur-tripp
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Work Experience

- **Software Engineer**
  University of Colorado Boulder, Boulder, CO, June 2022 - Present
  - Modernized CU Boulder's *Web Express* CMS, leveraging object-oriented design principles and interactive API-driven web components to enhance performance and usability.
  - Made FOSS contributions built with TypeScript / JavaScript, used by thousands of websites in production.
  - Collaborated within and between teams using GitHub and Asana for project management.
  - Attended DrupalCon Pittsburgh 2023.

Education

- **Master of Science** in **Computer Science**
  University of Colorado Boulder, Boulder, CO, May 2025. GPA: 3.8
  Coursework: **Software Engineering, Natural Language Processing (NLP), Cybersecurity, Neural Networks & Deep Learning, Data Mining, Linux System Administration, Computer Graphics**

- **Bachelor of Science** in **Computer Science**
  Westminster University, Salt Lake City, UT, May 2022. GPA: 4.0
  Coursework: **Web Apps, Databases, Networks, Algorithms, Artificial Intelligence (AI) & Machine Learning (ML)**

- **Associate of Science** in **Computer Science**
  Salt Lake Community College, Taylorsville, UT, August 2020. GPA: 3.8 (High Honors)
  Coursework: **Internet & XHTML Fundamentals, Web Programming, SQL Programming, Computer Architecture**

Projects

- **iiod.io**
  - Developed a full-stack decoupled web application and game with real-time player interaction using WebSocket and the Spring framework.
  - Deployed into production and played by hundreds of people around the world.

- **Fitness Dashboard**
  - Created a decoupled microservices-based fitness news web app using Tailwind, React, and Spring Boot.
  - Developed using Agile concepts, including user stories, TDD, and CI/CD pipelines.
  - Features acceptance testing with Selenium and production monitoring with Prometheus and Grafana.

- **Predictors of NFL Tackles**
  - Mined a large-scale dataset using modern Python tools including Pandas, SciPy, and Matplotlib.
  - Delivered insights through visualization and statistical modeling.

- **Alliant National Risk Profiling**
  - Building a Risk Profiling tool for Alliant National Title Insurance Co. to be deployed on Microsoft Azure.

Skills

- **Languages:** Java, JavaScript, TypeScript, Python, HTML, CSS, PHP, MySQL/PostgreSQL, C, Swift
- **Technologies:** Git, Spring, Heroku, Cloudflare, Docker, Maven, Tomcat, NodeJS, AWS, Drupal, Django
- **Methodologies:** Agile, Test-Driven Development (TDD), Continuous Integration / Continuous Deployment (CI/CD)