

Matthew Presti

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SUMMARY

Computer science student and proven leader with healthcare management background. Eager learner skilled in database systems,, C++, python programming, and full-stack JavaScript development. Combines strong technical aptitude with exceptional interpersonal communication and team-building abilities. Thrives in collaborative environments and seeking to leverage this distinctive background for a dynamic development team

SKILLS

Programming Languages: Python, C++, SQL, JavaScript, Scala.

Database Systems: PostgreSQL, MySQL, MongoDB, Cassandra.

Technologies: Git, Full-Stack Development, Agile Methodologies, Cloud Computing, Data Structures, Algorithms, Functional Programming, System Design, microservices architecture, TensorFlow, Pytorch, Huggingface Transformers, Machine Learning, Data Mining.

EXPERIENCE

Manager, Medical Scribe Program | BoulderCentre for Orthopedics | BOULDER, CO. | February 2022 - March 2024

- Managed full operational oversight of medical scribe program, including recruiting, interviewing, hiring, training, and scheduling.
- Coordinated staff scheduling and onboarding across multiple facilities during practice expansion, growing team from five to nine members.
- Presented monthly physician- scribe usage hours and cost reports, conducted yearly performance reviews.
- Gained valuable insight into healthcare business operations through direct mentorship with executive leadership.

Medical Scribe | BoulderCentre for Orthopedics | BOULDER, CO | October 2019 - February 2022

- Supported multiple orthopedic sub-specialists by adapting to individual documentation preferences while managing 100+ weekly patient encounters.
- Mastered specialized medical terminology to accurately document surgical consultations, procedures, and follow-up visits.
- Coordinated comprehensive patient care by writing physician orders for imaging, lab tests, referrals, and follow-up communication.

Fly Fishing Guide | Front Range Anglers | Boulder, CO. | May 2019 - October 2019

- Led guided fly-fishing expeditions throughout the Front Range, leveraging extensive knowledge of local waters and advanced fishing techniques.
- Co-instructed two-week youth camp program introducing 8-12 year-olds to fly fishing fundamentals and environmental stewardship.
- Maintained high client satisfaction ratings through engaging communication and personalized experiences.

PROJECTS

WildFireCast: Predictive Analytics for Wildfire Risk

Assessment

- Built a geospatial data pipeline integrating NOAA weather data and NASA MODIS satellite imagery using Python and SQL for wildfire risk analysis.
- Applied complementary data mining approaches including predictive modeling (XGBoost) and unsupervised pattern discovery (UMAP with HDBSCAN clustering) to identify critical wildfire event patterns.

CodeDocGen: Automated Documentation

Generator for Python Functions

- Designed and implemented an NLP pipeline using transformer-based model (CodeBERT) to automatically generate technical documentation from Python source code.
- Implemented industry-standard NLP evaluation metrics and assessed utility by accuracy in parameter and return value identification.

EDUCATION

B.S. Applied Computer Science | University of Colorado Boulder | Anticipated Graduation August 2025 | 3.58

B.A. Molecular Biology | Colorado College | Minor in Spanish | 2019 | 3.56

PUBLICATIONS

Atraumatic Fracture of the Medial Femoral Condyle of a T.K.A. | Arthroplasty Today | 2021

