Zachary Kubli

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WORK EXPERIENCE

Guidance Analytics   **July 2022 - March 2024**
Developer   *Pittsburgh, PA*

- **Developed advanced machine learning models** for natural language processing (NLP) using millions of medical reports, enhancing data analysis capabilities and predictive accuracy.
- **Managed data ingestion pipelines on AWS**, implementing automated DAGs (Directed Acyclic Graphs) for data normalization and transformation, which streamlined data processing and increased efficiency.
- **Implemented and optimized a scalable PostgreSQL database** to handle millions of medical records quarterly, ensuring data integrity and rapid access.
- **Conducted statistical data analysis** to derive significant insights, supporting data-driven decision-making processes.
- **Created impactful performance visualizations** for dozens of clients using Tableau, Seaborn, and other tools, improving client engagement and understanding of key metrics.
- **Led teams of 2-3 developers** in Continuous Integration/Continuous Deployment (CI/CD) workflows utilizing GitHub, Monday.com, and Notion, enhancing collaboration and project delivery speed.
- **Developed an anonymization program** to redact sensitive patient information before data pipeline integration, ensuring compliance with healthcare regulations like HIPAA.
- **Built a custom token management system** using OAuth2, strengthening security protocols and access control.
- **Transformed, encrypted, and migrated data** across multiple formats (XML, JSON, XLSX, CSV, etc.), facilitating seamless data interoperability and security.

Independent Tutor   **August 2018 – Pres.**
Self-employed   *Pittsburgh, PA*

- Passionate self-employed Tutor. Started independently volunteering to teach elementary students "Scratch" before tutoring professionally in Aug. 2018. Presently tutoring college-level math and computer science.

EDUCATION

Qwasar   **July 2019**
- Pres.
MSc, Computer Science   Online

- **Expertise in C programming language**, including implementing 50+ C library functions like `printf` and vector variables.
- **Developed a 3D raycast renderer** with sprites, showcasing advanced graphics programming skills.
- **Recreated the Linux tar tool**, demonstrating deep understanding of system utilities.
- **Gained project-based experience** in HTML, CSS, JavaScript, SQL, database design, network and IT fundamentals, advanced algorithm design, unit and integration testing, and web scraping.

Rensselaer Polytechnic Institute & Carnegie Mellon University   **Spring 2018-Spring 2019**
Undergraduate Coursework, Computer Science   *Troy, NY*

- Credits Taken: Biology, Calculus I & II, Communications, Computer Organization, Concepts of Mathematics, Data Structures, Foundations of C.S., Logic

Skills : Amazon Web Services (AWS), SQL, Algorithm Design, C Language, Java, Python Language, C++, C#, javascript, HTML, CSS, Presentation and PPT, Project Facilitation, Big Data, Data Analytics, Predictive Analysis, Clustering & Classification, Pyplot, Scikit, Pandas, Django, Flask, Docker, Kubernetes, git, bash, zsh, macOS Windows and Linux

Interests : Animals, Tennis, Coffee, 3D Printing, Foreign Languages (Japanese and Spanish)