Matthew Pecsok

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Current Work
LinkedIn
801-648-9153

Education

B.S. Mathematics, Westminster College 2018
Masters of Science Business Analytics, University of Utah 2021

Experience

August 2022-Present   David Eccles School of Business
Assistant Professor (Lecturer) OIS Department

- Utah Asia Campus Business Program Lead (Interim)
- Taught 4482 Data Mining for Business (Fall 2022)
- Teaching BCOR 2040 Value Impact Business Entrepreneurship
- Teaching BCOR 2020 Frameworks for Business Problems

Fall 2021-July 2022   David Eccles School of Business
Adjunct Instructor OIS Department

- Taught 4482 Data Mining for Business (Fall 2021)
- Taught two online sections of 6482 Data Mining for Business (Summer 2022)

Summer 2020-Summer 2021   David Eccles School of Business
TA

- TA for 6482 (Data Mining) for multiple semesters
- TA for 6483 (Advanced Data Mining) for fall of 2020

May 2021-Present   Optum UnitedHealthcare

Senior Software Engineer, Senior Manager AI Platforms, Geospatial Analytics and Observability

•   Designed features for a cloud based ML platform supporting research and production model deployments for hundreds of Data Scientists and ML Engineers
•   Conceptualized and collaborated on Spark architecture design for novel genomic distributed learning platform for 500,000 whole genomes
•   Built and maintained Java Spring Boot API Kubernetes distributed microservice architecture
•   Discovered, tested and validated features in AzureML, Databricks, Seldon.io for machine learning deployments
•   Designed Snowflake to Databricks integration to support big data pipelines for analytics

Feb 2019-May 2021   Utah Education Policy Center (University of Utah)
Lead Data Scientist/Project Manager

•   Implemented various statistical models for statistical significance and predictive modeling (regression, t.tests etc)
•   Use sql and R to extract, transform, load and analyze datasets
•   Create data visualizations both for print and web (shiny,ggplot)
•   Design, implement and approve data analysis plans
•   Database administration (MySql and Sql Server)
•   Enterprise reporting software (Shiny, SSRS, Tableau) design and administration
•   Implemented source control and jira

2017-2019   University of Utah Health Plans
Developer/Analyst III

•   Designed, built, administer automated reporting server (SSRS/SSAS, PowerBI)
•   Launched R as an analytics platform within the business analytics team
•   Administered multiple SQL servers and many ETL processes for those systems
•   Worked on analytics projects within the University Hospital Oracle Clarity Data Warehouse
•   Built C# EF MVC websites
•   Performed code review for junior and senior level developers/analysts.
•   Mentored Junior and Senior level C# developers
•   Built and administered TFS. Mentored other developers on how to use it.
•   Write M code for Cache no-sql database.
•   Handled various EDI files HL7, X12, Json, Xml file formats in C#.
•   Modified and maintained EDI X12 batch and real time interfaces.

2015-2017   Westminster College
Developer/Analyst

•   Develop code and UI screens to improve data collection/analysis
•   Create custom C#/Angular web application including API endpoint from no-sql db
•   Administer report writing server software, maintained security profiles
•   Troubleshoot and resolve data inconsistencies in databases

- Train report writers on database concepts and report writing
- Develop new enterprise software screens and tables for site specific needs
- Meet with stakeholders to determine institutional needs of software
- Work with users/developers to explain system best practices

2011-2015   Freelance software developer
Developer/Analyst

- Java/Cache developer
- Coded on custom MVC sudo-EF website
- Worked with clients to fulfill project based needs for Intersystems Cache databases
- Coded projects in Agile scrum project management
- Trained and assisted clients in development and data analysis
- Resolved mission critical software issues

2006-2011   Digital Technology
Software Engineer

- Coded in Java,Intersystems Cache ObjectScript/Zen, sql, Javascript, HTML, CSS
- Configured Cache & Sybase databases for software applications
- Developed accounting application
- Assisted customers in report writing and data analysis
- Created General Ledger application
- Maintained multiple newspaper accounting databases
- Worked with clients to address new business needs and resolve issues in software
- Traveled to customer sites to assist in software installation
- Developed in Agile programming method
- Built MVC Entity Framework website

2004-2006   University of Alaska Fairbanks
Linux Systems Administrator

- Built and maintained VMWare ESX server deployments of multiple VM instances
- Configured firewalls, backups and patched systems on deployment
- Designed and maintained LAN storage systems for storage of SAR satellite data

1999-2004   Cox Ohio Publishing
Software Engineer, Systems Administrator, Database Administrator

- Maintained multiple databases
- Coded and designed new features for Advertising sales system
- Server design and maintenance of both Windows and Unix servers
- Networking and firewall maintenance

Research

Su, Y., Rorrer, A., Owens, R., Pecsok, M., Moore, B., & Ni, Y. (2020). K-12 Mathematics Personalized Learning Program 2018-19 Student Outcomes, Evaluation Addendum for Year 3. Salt Lake City, UT: Utah Education Policy Center.

Owens, R., Rorrer, A., Ni, Y., Onuma, F. J., Pecsok, M., & Moore, B. (2020). Longitudinal Evaluation of the Math Personalized Learning Software Grant Program. Salt Lake City, UT: Utah Education Policy Center.

McCormick, K., Rorrer, A. K., Onuma, F. J., Moore, B., & Pecsok, M. (2020). Beginning in the Middle: Mathematics Pathways. Utah Education Policy Center: Salt Lake City, UT.

Onuma, F. J., Rorrer, A. K., Pecsok, M., Weissinger, K., & Auletto, A. (2020). Advancing STEM Teaching and Learning in Utah: An Evaluation of the Impact of the Professional Learning Grant Program. Utah Education Policy Center: Salt Lake City, UT.

Onuma, F. J., Rorrer, A. K., Pecsok, M., & Weissinger, K. (2020). Teaching Mathematics with Technology in Utah: An Evaluation of Teacher Knowledge, Practices, and Outcomes with Using Mathematics Personalized Learning Software. Utah Education Policy Center: Salt Lake City, UT.