Milosz Kowal

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SKILLS

Programming: Python, R, PHP, mySQL, HTML5, CSS3, PostgreSQL, Matlab, Mathematica, Git, LaTeX
Certifications: Bloomberg Market Concepts, Google Analytics

EDUCATION

Trinity College, Hartford, Connecticut — Aug 2014 – May 2018

- Bachelor of Science (B.S.) in Mathematics and Theater, GPA: 3.7/4.0
  - Coursework: Linear Algebra, Abstract Algebra, Analysis, Differential Equations, Chaos Theory
  - Honors and Awards: *cum laude*, Pi Mu Epsilon Inductee (Spring 2018)

Illinois Mathematics and Science Academy, Aurora, Illinois — Sep 2011 – May 2014

- Attended second-highest rated public high school in the United States.

SELECTED EXPERIENCE

Metacore Technologies, New York City, New York — Jan 2020 – Present

- DevOps Engineer
  - Construct and maintain internal tools, primarily in Python, to increase developer efficiency. Examples include an automated employee onboarding script.
  - Develop Helm Charts and Kubernetes clusters for clients, ensuring zero-downtime upgrades, phased rollouts, and high availability across all clusters.
  - Optimize and add to existing CI/CD pipeline (GitHub, CircleCI, Docker, Kubernetes), reducing build time from code check-in to production deployment.

Moody's Corporation, New York City, New York — Jul 2018 – Jul 2019

- Software Engineer
  - Implemented and maintained four APIs in Python, providing machine learning services in fuzzy matching, content summarization, thematic tagging, and written content review. Was deployed into production with over 2,000 research writers.
  - Implemented an automated test library for above APIs using PyTest and Jenkins, eliminating the need for manual qualitative testing. Reports were generated in Allure.
  - Designed high-level logic and process flow for caching and storing machine-generated text content using Oracle SQL, dramatically reducing retrieval time for offshore clients.

Trinity College Information Technology Services, Hartford, Connecticut — Sep 2014 – May 2018

- Head Solutions Engineer
  - Trained and evaluated over 15 new employees, analyzing performance trends using Crystal Reports.
  - Provided support on over 4,900 service requests, logging all details in SolarWinds Web Helpdesk.
  - Drafted Bash script to automate process within network infrastructure, resulting in substantial decreases in service requests related to that issue.
  - Cooperated with architectural design team to create new solutions for user body of over 2,200 students, faculty, and staff.

SELECTED PROJECTS

PyMessage | NLTK, Pandas, SQLite, Tableau

Python and NLTK library for sentiment analysis of arbitrary strings of characters, pulled from over 200K text messages stored in a SQLite database locally on macOS. Publishes results in CSV format for ingestion into Tableau and other visualization programs.

Seshat | Flask, Bootstrap, PostgreSQL, ElasticSearch, Heroku

Full-stack application that allows users to create personalized accounts and add books they have read. Provides statistics on book readership and stores all data in a PostgreSQL database.

LANGUAGES

English (fluent), Polish (native), French (intermediate).

INTERESTS

Editorial photography, works of Fyodor Dostoevsky, podcast production, applied mathematics, candle making.