Milosz Kowal

me@miloszkowal.com • +1 (630) 447-0764 • miloszkowal.com

EDUCATION

Trinity College, Hartford, Connecticut   Aug 2014 – May 2018
- Bachelor of Science (B.S.) in Mathematics and Theater, GPA: 3.7/4.0
  - Relevant 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
- Received diploma.

SELECTED EXPERIENCE

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, resulting in over 600 test cases. Reports were generated in Allure.
  - Designed high-level logic and process flow for caching and storing machine-generated text content, reducing retrieval time from $O(n)$ time to $O(1)$ time.

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.

Navier, Inc., Chicago, Illinois   Jun 2012 – Dec 2013
- Chief UI/UX Design Engineer
  - Created platform enabling web developers to interact with consumers to improve prototype versions of apps.
  - Leveraged AngularJS, CSS3, and HTML5 in constructing front-end interface for customer-facing products.

SELECTED PROJECTS

PyMessage - Analyzing iMessages using Python and NLTK
- Constructed library that analyzes sentiment of 200K+ text messages using Python 3.7 and NLTK 3.4.
- Future improvements include constructing a full API to analyze text messages and similar strings.
- Source code available on GitHub.

Trinity College Student Photographers (TCSP), Trinity College   Oct 2015 – Jan 2018
- Founder, Chief Executive Officer
  - Employed 20 students, establishing TCSP as a premier employment opportunity for the Trinity community.
  - Provided photography and event coverage services for over 70 events on campus, providing deliverables for each event within 24 hours.
  - Managed social media accounts using Hootsuite, Mailchimp, and Later, with collective following of over 200.

LANGUAGES

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

SKILLS

Programming: R, PHP, mySQL, Python, HTML5, CSS3, LaTeX
Software: Adobe Photoshop, Microsoft Office, Matlab, Mathematica, Tableau, Oracle SQL Developer
Certifications: Bloomberg Market Concepts, Google Analytics

INTERESTS

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