# Milosz Kowal

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**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.

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**WORK EXPERIENCE**

**Moody's Corporation**, New York City, New York                                Jul 2018 – Jul 2018
- Software Engineer
  - Routinely work with Oracle and other large-scale SQL databases, conducting numerical analysis using Python (Pandas and NumPy), SQLite, and R, visualizing findings with Matplotlib and Tableau.
  - Implemented an automated test library using PyTest, eliminating the need for manual qualitative testing for four core NLP projects.
  - 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 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 2200 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.

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**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.

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**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.