

# Nicholas Colling

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Dynamic and dedicated mathematician and software developer with over 5 years combined experience in data analysis and interpretation, problem solving through Java, C++, and Python development, and script writing and formatting with LaTeX.

## Skills

- Analytically approach problems and derive solutions with a willingness to seek outside assistance as necessary.
- Data Analysis and Mathematical Modeling through mathematical statistics and probability.
- Advanced Analytical and Algebraic knowledge and techniques such as Real and Complex Analysis, Number Theory, and Vector Spaces.
- Ability to quickly learn, understand, and write in new programming languages.
- Self-motivated and learn well independently.
- Collaborate and communicate effectively.
- Public speaking and debate.
- Respond positively and learn from criticism, always seeking to improve.

## Technical Skills

- C++, Java and JavaFX, Kotlin for Android, Python with NumPy, Matplotlib, and Tkinter
- HTML5/CSS3, Content Management Systems and LaTeX.
- Substantial experience with Microsoft Office: Word, Powerpoint, and Excel.

## Experience

### Freelance Mathematics Tutor

- January 2017 – Current
- One on One tutoring for College Algebra, Calculus I, Calculus II, Linear Algebra, Discrete Mathematics, and Proof Writing.
- Analyzing student's work to discover where problem solving skills or general knowledge broke down in order to personally tailor a curriculum to solve for deficiencies
- Guiding study sessions and practice sessions for exams related to tutored courses

#### Cutting Edge/Mythic Raider, and Guild Officer, World of Warcraft

- November 2017 – Current
- Top 1% of the playerbase, currently ranked 80th U.S as guild, 89th in world for player class.
- Analyzing mechanical problems and formulating tactical solutions.
- Collaborating with others to obtain optimal solutions.
- Utilizing teamwork to execute solutions and achieve goals.
- Managing 20-30 other players and ensuring raid readiness.
- Analyzing and comparing logged data for player performance review purposes.
- One on One performance reviews with other members of the guild.
- Analyzing logged data of applicants to the guild and communicating findings to other members of the leadership team for effective potential player gains.
- Communicating intended raid strategies with members of the team.
- Motivating members to perform well and succeed.

#### Bourbon Cowboy, Emporia, KS – Security

- February 2020 – November 2021
- Authenticating Personal Identification of Entrants.
- Conflict Deescalation.
- Ensuring safety of bar patrons and staff.
- Ensuring alcoholic beverages imbibed by legal patrons.
- Removal of unruly patrons.

#### Day's Inn, Emporia, KS – Night Auditor/Weekend Manager

- December 2013 – June 2018
- Managing Customer Accounts.
- Preparing daily assignments for the cleaning crew.
- Performing end of day and closing procedures, running daily audit reports.

#### Casey's General Stores, Emporia, KS – 2nd Assistant Manager

- June 2015 – May 2017
- Managing staff and day-to-day store operations.
- Performing end of day and closing procedures.
- Managing and balancing daily accounts and running audits.
- Communicating daily operations with Corporate Offices.

## Education

- Emporia State University; Emporia, KS – **Bachelors of Science in Mathematics**  
January 2016 – December 2019, Emporia State University
- Ivy Tech Community College; Bloomington, IN – **Associates Software Development**  
March 2022 – Anticipated Graduation Date: May 2023, coursework completed March 2023

## Notable Completed Courses

### **Mathematics:**

- Number Theory
- Multivariable Calculus
- Real and Complex Analysis
- Linear Algebra and Vector Spaces
- Mathematical Statistics and Modeling

## Notable Completed Courses (cont.)

### **Physics:**

- Multi-dimensional Kinematics
- Electrostatics and Magnetism
- Statics

### **Software Development:**

- Database Management
- Problem Solving with C++
- Website Development with HTML5 and CSS3
- Content Management Systems
- Security and Secure Coding
- Java and JavaFx
- Python with Tkinter, introduction to NumPy, Matplotlib, and many other libraries.
- Mobile App Development with Kotlin and Android Studio

## Clubs/Achievements

### **Emporia State University:**

- Vice President of the Kappa Sigma Fraternity

### **Ivy Tech:**

- Dean's List Summer 2022, Fall 2022, Spring 2023
- Invitation to join Phi Theta Kappa Honor Society
- Summa Cum Laude