

Koushik Pernati

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Education

Siena College, Loudonville, NY

Bachelor of Science in Computer Science, Minor in Mathematics

Expected Graduation: May 2017

Overall GPA: 3.95/4.00, Major GPA: 3.98/4.00

Skills

Computer Languages: Proficient in Java; Experienced in SQL, HTML, CSS, JavaScript and PHP; Familiar in Python and R

Tools: Experienced in MongoDB, Eclipse, WEKA, GitHub, Microsoft Office and Oracle SQL Developer;

Familiar in IBM Bluemix and AWS CF Templates

Operating System: Experienced in Windows, Linux, and ROS

Relevant Work Experience

Data Analytics Web Development Intern – Siena College, Loudonville, NY

September 2016 – Present

- Working with Siena Research Institute on developing an interactive searchable web page that presents the data to the public from the Research Institute's annual CEO Study
- Extracting quantitative data from Microsoft Excel using Java to form JSON strings
- Using JavaScript to create interactive graphs for data visualization

Junior Solution Architect – GE Power, Schenectady, NY

May 2016 – August 2016

- Worked on managing multiple AWS Projects to make sure go live dates were met
- Worked closely with the cloud team through testing and deploying phases to make sure any missed deadlines were streamlined smoothly
- Created cloud projects reports for CXO managers
- Developed an enterprise mobile SaaS solution for GE Schenectady Campus and deployed the mobile app in 30 days
- Created the front-end mobile web app user experience for SwapShop (Craigslist) project which will be incorporated in aforementioned enterprise mobile solution
- Created an internal GE marketing website for mobile app promotion which linked to Support Central (GE Content Management Platform)
- Gained associate level understanding of AWS architect, build, and troubleshoot through Cloud project management
- Daily scrum meetings with insource and outsource team members
- Used MS Project and MS Visio for Critical Path and Project Architecture respectively
- Resulted in the improvement of project turnaround time and creation of a 68 day project life cycle template populated with SLAs

Big Data Analytics and Artificial Intelligence Intern - Dumbstruck, Albany, NY

January 2016 – April 2016

- Created a Java program to convert video files to audio files using JAVE open source project
- Worked on analyzing and creating speech analysis from audio files using Java
- Used various resources to analyze and convert speech to text such as CMU Sphinx and VoiceBase API
- Used IBM Watson services to convert speech to text and retrieve sentiment analysis
- Created an Java application to retrieve demographics information based on zip code using a web service

Technical Staff for Mathematics Textbook - Siena College, Loudonville, NY

January 2016 – Present

- Working with one other technical staff member and five textbook authors on developing a web application based on in-textbook problems called panels using primarily JavaScript and PHP with HTML and CSS
- Textbook is called "About Mathematics" and link for web application is: am3.sienasellbacks.com/aboutMath/home.php
- Textbook is set to be published and used in mid-late 2016

Computational Linguistics Research Assistant - Siena College, Loudonville, NY May 2015 – July 2015

- Worked on a National Science Foundation (NSF) funded research program where I created a software system in Java to extract information from abstracts in research papers and documents
- Employed the artificial intelligence technique of genetic algorithm, using results from neural networks and independent component analysis algorithms
- Resulted in a summary and categorization of abstracts into specific groups that each abstract focused on
- Determined the abstracts that would be placed into categories

SPARCS Teaching Assistant - Siena College, Loudonville, NY September 2015

- Worked for Siena Plan for Attracting and Retaining Computer Scientists (SPARCS) project, aimed at educating students about the impact of Computer Science

Introduction to Java Programming Lab Assistant - Siena College, Loudonville, NY September 2014 – December 2014

- Assisted students with proper completion of lab material under guidance of CS faculty
- Completed all lab exercises ahead of time to prepare and review material for errors

Computational Linguistics Research Assistant - Siena College, Loudonville, NY June 2014 – August 2014

- Worked on a team in a National Science Foundation (NSF) funded research program where I created a software system in Java to extract information from public comments that were submitted to the New York State Department of Environmental Conservation
- Used computational techniques to understand the public's view toward environmental issues using supervised machine learning
- Cleaned and categorized the corpus into sections which helped summarize the data
- Published the findings and results in 2014

Publications

Public Perceptions of Shale Gas Development in New York State: The Role of Media. 67th Annual Meeting of NYSEA. (With J. Booker, S. Habib, M. Hinojosa, M. Bianchi, S. Vukovic and K. Pernati). Siena College, Loudonville, NY October 10-11, 2014

Relevant Course Work

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| - Data Science Specialization | - Software Engineering |
| - Advanced Database | - Machine Learning |
| - Theory of Computation | - Tech Valley Career Preparation Seminar |
| - Database Management | - Web Application Development |
| - Design and Analysis of Algorithms | - Open Source Kinect Programming |
| - Tech Valley Scholars Data Science | - Artificial Intelligence Seminar |
| - Robotics | - Object-Oriented Design and Programming |
| - UX Design & Interface | - Discrete Structures |
| - Assembly Language and Computational Architecture | - Data Structures |

Awards & Achievements

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| • President's List Award of achievement from Siena College | Fall 2013 – Present |
| • Inducted into the computer science honor society, Upsilon Pi Epsilon | May 2016 |
| • Awarded the Guy & Diane Shea Maddalone Scholarship for Entrepreneurship | April 2016 |
| • Placed 3 rd in Siena College Spark Tank Business Competition | March 2016 |
| • Placed 3 rd in the ACM-ICPC Northeast North American Preliminary Regional Programming Contest at Western New England University. Qualified for Northeast Regional Final at RIT | October 2015 |
| • Certificate for Diversity of Leadership Styles from Siena College | Fall 2013 |

Clubs & Activities

Vice President/President of Computer Science Club - Siena College, Loudonville, NY September 2014 – Present

- President since September 2015

Member of Association of Computing Machinery (ACM) September 2014 – Present

Volunteered and Judged at the 29th Annual Siena College High School Programming Contest April 2016

Attended StartUp Tech Valley – Troy, NY November 2015

Volunteered in IMPACT program - Siena College, Loudonville, NY October 2015