

# Elifia Muthia

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## EDUCATION

**Barnard College, Columbia University** | New York, NY | *BA in Computer Science* Expected May 2024  
Dean's List (Fall 2020, Spring 2021, Fall 2021, Spring 2022) GPA: 3.99  
Relevant Courseworks: Data Structures & Algorithms, Advanced Programming, Artificial Intelligence, Applied Statistical Computing, CS Theory, Linear Algebra, Calculus III, Introduction to Robotics Engineering, Discrete Mathematics

## TECHNICAL SKILLS & LANGUAGES

**Technical:** Java | Python (Numpy, Pandas) | C | R | MATLAB | Node.js | Unix/Linux | MySQL/PostgreSQL | MIPS | Git/GitHub | HTML/CSS | JavaScript | JSON  
**Languages:** Indonesian (Native) | Javanese (Intermediate) | Chinese (Elementary)

## PROFESSIONAL EXPERIENCE

**Emerest Connect** | *Data Analyst, Part-Time* | New York, NY Oct. 2022 - Present

- Deliver high-value data analytics projects that Emerest's existing data products could not cover
- Work with the Product Manager and consultants to help prototype new analytics offerings
- Implement client solutions using ML/statistical analysis for targeted social areas in our patient population
- Create a plan with the team to scale solutions, automate code, and centralize complex logic.
- Present findings, insights, and analytical results to internal partners for client deliveries, as well as the larger function for continued growth and learning.

**Barnard Programming Languages Lab, Barnard College** | *Research Assistant* | New York, NY Jan. 2022 – Present

- Developed a software with Columbia's Neurological Institute to measure tremor severity.
- Programmed a Python script to graph 1000+ rows of data and analyze trends in FDA recalls of medical softwares.
- Refactored MATLAB legacy code to behave as a command line tool and run in the back end.
- Designed a web interface that collects information, such as pressure, on a spiral that is drawn by a patient.
- Built a web server using Node.js to connect the MATLAB code with the web interface to calculate and display the degree of severity of the patient's tremor.
- Attended stand-up progress meetings twice a week to maintain deadlines and discuss ways to resolve issues.
- Presented the product to our client, Dr. Seth Pullman, who will use this software to help his patients.

**Docotel** | *Software Developer Intern* | Jakarta, ID June 2018 – Aug. 2018

- Developed an app feature using Java that screens the top news in Indonesia that contain predetermined keywords.
- Automated the retrieval of recent news every 3 hours from REST APIs and flagged all news of interest.
- Created and updated tables in a MySQL database to locally store all flagged news.

## LEADERSHIP & COMMUNITY INVOLVEMENT

**Private Tutor** | *Mathematics and Computer Science* | Jakarta, ID | New York, NY (Remote) Dec 2019 – Present

- Tutored 8 middle school and high school students each for 1 hour a week on Mathematics and Computer Science.
- Enabled 3 students attain perfect scores in AP Computer Science A, AP Calculus AB, and IB Computer Science.

**E-commerce Club, Jakarta Intercultural School** | *Co-President & Co-Founder* | Jakarta, ID Jan. 2019 – May 2020

- Co-founded the club to provide an E-commerce site for service clubs who rely on merchandising to attain funds.
- Interviewed service club leaders and consulted them to align the product with their expectations.
- Led the technical team in building the E-commerce website and oversaw the team's progress.