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: 3.96
Relevant Coursework: Data Structures & Algorithms, Advanced Programming, Artificial Intelligence, Linear Algebra

TECHNICAL SKILLS & LANGUAGES

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

PROFESSIONAL EXPERIENCE

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 & 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.

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.
- Enabled 3 students attain scores of 5 in AP Computer Science A and Calculus I & 7 in IB Computer Science.
- Monitored each student's progress to ensure students' academic success.
- Adopted different teaching strategies to better suit students' learning styles and goals.

Docotel | *Software Developer Intern* | Jakarta, ID   June 2018 – Aug. 2018
- Developed an app feature using Java that screens the top news in Indonesia that contains a certain keyword.
- 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.
- Designed a local Java app interface for users to add a new keyword to screen for and see all flagged news.
- Met daily with a mentor and wrote progress reports to ensure accurate project documentation.
- Presented the project to the team who is working on the app that will adopt this feature.
- Assisted in testing and identifying bugs in 3 different projects that are separate from my own project.

LEADERSHIP & COMMUNICATIONS EXPERIENCE

Columbia Indonesian Society | *Community & Student Life Team* | New York, NY   Sept. 2021 – Present
- Organized large-scale events alongside a team of 4 to strengthen the Indonesian community at Columbia
- Negotiated with the executive board to secure $200 in funding for the team

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 the construction of the E-commerce website and oversaw the team's progress