Natanel Solomonov

☎(215)-913-6110 || github.com/Natanel-solomonov || linkedin.com/in/natanel-solomonov-13a606239/

Education

University of Maryland College Park	**Expected Graduation: May 2027**
Bachelor of Computer Science	*College Park, MD*

- Courses: Introduction to Computer Systems(In Progress), Discrete Structures(In Progress), Linear Algebra(In Progress), Object-Oriented Programming I, Object-Oriented Programming II, Calculus I, Calculus II

Work Experience

NIST(National Institute of Standards and Technology)	**May 2024- August 2024**
Software Development Testing Intern	*Gaithersburg, MD*

- Conducted Multiple **Verification and Validation** tests of an **Agent-Based Model** using reward signal functions and Cobb-Douglas functions
- Boosted the efficiency of a **Reinforcement Learning** model by over **20%** by designing multiple training functions within **Julia** to help better train agents and promote their decision-making within the model.
- Created graphical representations of agent behavior using **matplotlib**
- Increased the organization of the model by designing functions that read various training data into a **JSON** file

Projects

Fit-GPT | fitsgpt.com | github.com/Natanel-solomonov/Fit-GPT-Project   **MongoDB| Express** | **Node | React**

- Programmed a **Full Stack** personal AI fitness assistant capable of creating custom fitness plans for a user, answering user questions related to fitness, and fetching videos based on a user question
- Employed a **MongoDB** database to store all user-created fitness plans as well as other relevant user information
- Utilized **Node.JS** and **Express.JS** to create a **RESTful API** to facilitate efficient communication between the backend and frontend
- Incorporated **JSON Web Tokens** for user authentication post login and post sign up.

Nutritional Web Scraper | github.com/Natanel-solomonov/Nutritional-Web-Scraper   **Python | Beautiful Soup**

- Developed a **Web Scraper** capable of scraping the University of Maryland dining website and collecting nutritional information about the foods present in the dining halls, enabling students to make health-conscious food choices.
- Utilized **Python** and **BeatifulSoup** for web scraping and handled output data with **CSV** and **JSON** files

Personal Portfolio || natanel-solomonov-personal-website.netlify.app/   **React + Vite**

- Created a professional personal portfolio website to display projects and other accomplishments using **React.JS**

Leadership/Extracurricular

Maryland Men's Crew	**August 2023-Present**
Athlete	*College Park, MD*

- Rowed in both Varsity and Novice boats in multiple races, earning both gold and silver medals

Sigma Phi Epsilon Fraternity	**February 2024- Present**
Balanced Man Scholarship Chair/Member	*College Park, MD*

- Facilitated the banquet for the Balanced Man Scholarship Award, as well as aided in the planning of the fall 2024 rush

Technical Skills

Languages: Java, Python, JavaScript, HTML5, CSS, Julia

Developer Tools: Postman, Git, Github

Libraries/Frameworks: Node.JS, Express.JS, React.js, Next.JS, matplotlib, BeatifulSoup, MongoDB