Athanasios Grivakis
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EXPERIENCE

GEORGIA TECH COLLEGE OF SCIENCES (Teaching Assistant)   **Aug 2024 – Dec 2024**
- Taught calculus problem-solving strategies to 30+ students in group white-boarding studios, resulting in a 9% average performance improvement between midterm and final grade.
- Mentored 100+ students one-on-one on calculus concepts during weekly walk-in office hours.

KPMG (Technology Assurance Analyst)   **Jun 2022 – Aug 2022**
- Reduced IT control documentation time for the audit team from 3 to 2 weeks using Python (Pandas) and SQL to accelerate Excel capabilities, improving data preparation efficiency by 30%.
- Created Power BI dashboards to track over 200 IT control updates for a Fortune 500 insurance company's infrastructure transformation, improving data transparency in the IT environment.
- Investigated client IT environment during team walkthroughs to document security, adaptability, and scalability insights for future improvements.

GEORGIA TECH C.E.I.S.M.C. (PEAKS Summer Program Leader)   **May 2021 – Jul 2021**
- Coached 50+ high schoolers through coding and ML lessons to earn Seth Bonder data science certificate.
- Created video marketing the PEAKS program, generating a 15% enrollment increase from the previous year.

GEORGIA TECH EXCEL PROGRAM (Mentor)   **Feb 2021 – May 2021**
- Facilitated skill development for five neurodiverse EXCEL students by role-playing professional and social interactions, including workplace scenarios, to develop confidence and interaction awareness.

PROJECTS / ACTIVITIES

GEORGIA TECH RESEARCH   **Fall 2023 – Spring 2024**

Music Research (https://tinyurl.com/4dw8w3hk)   **Spring 2024**
- Collaborated with GT School of Music professor to research the combination of programming and technology in live music composition and performance.
- Investigated how live electronic ensembles paved the way for experimentation with sound, space and Human-Computer Interaction to create state-of-the-art musical productions and performances.

Mathematics Research   **Fall 2023**
- Collaborated with GT School of Math professor to research and solve problems in mathematical topics including Cauchy-Schwarz inequality, projections in 4+ dimensions, and Buffon's needle problem.

CREATE-X IDEA-TO-PROTOTYPE   **Spring 2021**

TradEasy (https://sites.gatech.edu/i2pshowcase2021/home/)
- Co-directed startup team TradEasy to explore and pitch using automated trading bots in portfolio management and asset allocation in small businesses to 40+ teams at Idea to Prototype Showcase.
- Researched trading strategies and trading bot features including web sockets for data streaming, APIs for order placement, and Python's NumPy and Pandas for manipulating indicators, positions, and trades.
- Communicated insights through weekly discussions on progress with team mentor.

COMPUTER SCIENCE PROJECTS   **Fall 2019 – Fall 2022**

AI: Raven's Progressive Matrices (RPM) Solver (https://tinyurl.com/mwpmrfhw)   **Fall 2022**
- Created program that solves 100+ RPM IQ test problems in 3 seconds using pixel-ratio algorithms.
- Leveraged NumPy and knowledge-based AI for solving problems 360 times faster than a person.

Web Development: Civilization in Contemplation (civincont.com)   **Fall 2019**
- Created website on history and technical aspects of Byzantine music, Incan mathematics, and Taido.
- Developed UI features such as dark mode and a contact form using HTML, CSS, JavaScript, and PHP.

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY: B.S. Computer Science, B.S. Mathematics **Aug 2019 – Dec 2024**
- **Concentrations:** ML/AI, Human-Computer Interaction, Pure Mathematics.
- **Organizations:** CREATE-X, CEISMC, Excel Program, Society of Hispanic Professional Engineers.
- **Recognitions:** Honors (cum laude), Dean's List, ZELL Miller Scholarship (top 5% Georgia H.S. students).

ARISTOTLE UNIVERSITY OF THESSALONIKI GREECE: Modern Greek   **Summer 2024**
- Achieved A1 level of modern Greek during an immersive summer program with the School of Philology.

SKILLS / INTERESTS

- **Technical Skills**: C, CSS/HTML/JS, Java, Python, SQL, GitHub, Power BI.
- **Interests**: Classical Piano, Greek Folk Dance, Origami, Taido Martial Art Instructor.