Wilmargherix M. Castañeda

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A passionate Computer Science student specializing in Data Science, driven by a love for turning data into meaningful insights through analytics and machine learning. I enjoy tackling projects that blend creativity with logic—whether that's through graphic design, software development, or orchestrating tech-driven initiatives. With hands-on experience in user experience, project management, and collaborative teamwork, I thrive on transforming ideas into impactful solutions while continuously evolving both technically and creatively.

EDUCATION

University of Santo Tomas – Manila

Bachelor of Science in Computer Science Specializing in Data Science   2022 – Present
- Consistent Dean's Lister   1st Year 1st Term - Current Term
- Class Vice President   Freshman
- Benavides Outstanding Achievement Award   2025

Buting Senior High School

Senior High School – STEM   2020 - 2022
- With Highest Honors
- Top 4.5 Overall Rank (Out of 1167 Graduates)
- Top 2 Strand Rank (out of 231 STEM Graduates)
- Best Research Paper and Presenter
- Student Council Treasurer
- Class President

San Joaquin-Kalawaan High School

Junior High School   2016 - 2020
- With High Honors   Grade 8 - Grade 10
- With Honors   Grade 7
- 3rd Place – Division-wide Science Quiz Bee (Division of Pasig)
- 4th Place – Science and Health News Writing (25th DSPC)
- 8th Place – Pagsulat sa Balitang Agham (26th DSPC)
- 7th Place – Science Feature Writing (27th DSPC)

WORK EXPERIENCE

SOLARIS – SOLAR: Supply Organization for Logistics, Analysis, and Reports   August 2024 – May 2025
Project Manager, Software Engineering
- Establish objectives, deliverables, and constraints to ensure alignment with stakeholders' expectations.
- Outline tasks, milestones, and deadlines to keep the project on schedule.
- Assign personnel, budget, and materials to various tasks and project phases for optimal execution.
- Analyze possible challenges and develop proactive strategies to minimize impact.
- Regularly review performance metrics to ensure milestones are met and adjustments are made as needed.
- Provide updates and progress reports to ensure transparency and alignment with client expectations.

AWS LEARNING CLUB – ESPAÑA   August 2024 - Present
Co-Founder, **Chief Marketing Officer**
- Supervised end-to-end development of marketing materials, from conceptualization and production to publication across social media platforms.
- Strategically recommended marketing content tailored to the target audience, ensuring relevance and engagement.
- Collaborated on the design and creation of publication materials, contributing to both copy and visual elements.
- Designed graphic assets and promotional visuals to enhance brand identity and campaign effectiveness.
- Led the club's marketing initiatives to increase visibility, drive engagement, and support community growth.

TOMCAT-UST

Executive Committee: **Executive Assistant to the Chief Audit Officer**   November 2024 – June 2025

- Managed logistics for university-wide productions, overseeing procurement and organization of essential materials and resources.
- Handled financial accountability by recording transactions and securing receipts for all logistical expenses.
- Created production write-ups to support documentation, promotions, and archival purposes.
- Maintained and monitored detailed records of organization members, including payment tracking and personal information management.
- Ensured smooth internal operations through efficient data handling and audit-related documentation.
- **Director for Logistics**, *Grand Pools Training 2024*, *Christmas Campaign 2024*
- **Auditor-in-Charge**, *Table Talks 2025, MAX 2025*
- **Logistic Representative**, *Legacy 2025*

COMPUTER SCIENCE SOCIETY

Executive Committee: **EA to the Director for Digital Productions**   September 2024 – June 2025
- Designed and created publication materials for various digital productions, ensuring alignment with the organization's branding and messaging.
- Actively contributed to the creative process by brainstorming concepts, providing feedback, and collaborating with the production team on visual direction.

Executive Board: **First Year Level Representative**   April 2023 – May 2024
- Facilitated and supervised the Documentation and Academics Committee, ensuring the production of high-quality academic and organizational materials.
- Spearheaded **reFRESHIEr**, a peer-tutoring initiative designed to help freshmen understand complex Computer Science concepts.
- Coordinated the **Freshmen Orientation**, guiding new students through academic expectations and campus culture.
- Hosted major events such as the **CSS General Assembly** and **CS Tracks Seminar**, promoting academic and community engagement.
- Project Co-head, **Tracks Seminar I** – organized seminar logistics and program flow to help students choose their specialization tracks.
- Project Co-head, **CS Meet the Parents 2024** – facilitated a collaborative event bridging students and their families with the department.
- Project Co-head, **OlympiCSS 2024** – managed event activities and coordination for a department-wide sports and team-building event.
- Collaborated closely with fellow board members to represent first-year concerns and enhance overall student welfare.

OTHER VOLUNTEER WORK & INVOLVEMENT

UST TOMASINNO CENTER   January 2025
2ND Hack-a-Thom: Innovating from Health, Environment, & Food - Mentor

THOMASIAN GAMING SOCIETY   September 2022 – May 2023
Human Resources – Evaluations Committee Staff

CISCO NETWORKING ACADEMIC GATEWAY   September 2022 – May 2023
President Committee - Member

CICS COMELEC   September 2022 – May 2023
Deputy

PROJECTS
SOLAR: Supply Organization for Logistics, Analysis, and Reports   May 2024
Enterprise and Resource Planning (ERP) and Point of Sale (POS) System for Business Sales | Project Management
- Designed and implemented a tailored ERP platform to optimize inventory management, order tracking, and data analytics, improving operational efficiency in the food industry.
- Successfully deployed at se-solaris.com, ensuring seamless integration and accessibility for users.

ReBiCoM: Recursive Bias Correction Model for MSEs' Creditworthiness   December 2024
Creditworthiness Machine Learning Model | Python, Pandas, Scikit-Learn, and Seaborn
- Created an algorithm utilizing Subgroup Threshold Optimization (STO) and Lorenz Curve Analysis on top of traditional machine learning algorithms to enhance accuracy and fairness in creditworthiness assessment for MSEs by reducing biases in features such as gender through subgroups.
- Performed data cleaning, preprocessing, data aggregation, and exploratory data analysis on user transactions and information to retrieve various insights such as user trends in loan applications

- Produced up to 92% reduction in gender discrimination and 98% reduction for subgroups defined by unsupervised machine learning models.
- Achieved 1st runner-up at BPI D.A.T.A Wave 2024.

AuthentiKa   November 2024
Multi-model Fraud Detection Platform| Python, Flask, OpenCV, and Next.JS
- Developed a muti-model platform overnight for fraud detection in online selling involving data scraping, machine learning, and computer vision solutions.
- Conceptualized data scraping of product listings and use information on online selling platforms like Facebook Marketplace and Carousell and integrating a platform-specific machine learning model to evaluate trustworthiness based on each platform.
- Aided in the development of API for facial ID verification recognition and store IDs while hiding critical information through optical character recognition.
- Spearheaded team workflow and development of the web-based product featuring user trust scores and obscured IDs.
- Achieved 1st runner-up at Hack the Future: Technology for a Better World.

ClashBytes   September 2024
Edtech Platform| NextJS with IC Protocol via Azle
- Pitched a web-based edtech platform on programming featuring advanced gamification strategies such as turn-based multiplayer coding battles for a more interactive learning environment.
- Includes Web3 integration such as blockchain using Internet Computer Protocol (ICP) with Azle.
- Achieved Championship at both the Hooked Unitour Hackathon and iThink Hackathon.
- Achieved Top 15 at the DICT Philippine Startup Challenge 9; Currently a Finalist for QC Startup PH

Plateé   July 2024
Food Recognition App | Python and Figma
- Conceptualized an AI platform to provide food nutrition knowledge and promote dietary habits using computer vision.
- Integrated an application that utilizes food recognition to estimate food amount through machine learning and provide a breakdown of nutritional information and give recommendations of diets plans based on historical data.
- Achieved Top 4 at the Mapua's NextGen Start-Up Challenge 2024.

HackAttack!   July 2024
A Gamified Learning Platform Full Stack Web Application | React, NodeJS, JSON
- Developed a full-stack gamified e-learning web application overnight with singleplayer and multiplayer modes to improve knowledge retention among young learners.
- Achieved 1st runner-up at DLSU's Hackercup 2024.

KalingAI   April 2024
- Conceptualized and designed an AI-powered health diagnostic platform using GPT-4 with large language model (LLM) fine-tuning and knowledge base embedding (KBE) to produce probabilistic inferences.
- Achieved 1st runner-up and Best in Poster at the FEU Tech ACM Codequest.

CONTEST PARTICIPATIONS & AWARDS RECEIVED

StartUp QC Student Competition 2025, Startup QC   May 2025
Bronze Awardee
- Presented Clash Bytes in a business plan competition. It is an innovative learning platform that makes online courses interactive and competitive. It helps secondary students, especially those with potential but limited resources, to succeed in the digital age.

SAS Curiosity Cup 2025, The Curiosity Cup: A Global SAS Student Competition   April 2025
Rank 22
- Forecasting US Crop Yields Using Machine Learning and Time-Series Analysis. Leveraging advanced techniques such as Decision Trees and Gradient Boosting, this project evaluates the effects of climate variability, technological advancements, and policy changes on agricultural output. The analysis identifies key trends and critical factors driving productivity shifts in the agricultural sector.

BPI DATAWave Hackathon – Machine Learning Track, Bank of the Philippine Islands   December 2024
1st Runner Up
- Applied machine learning and new optimization techniques to enhance loan trustworthiness assessments.

Hack the Future: Technology for a Better World, Kaya Founders   November 2024
1st Runner Up
- Developed a platform using machine learning, data scraping, and computer vision solutions to verify user identity and credibility in online marketplaces.

Philippine Startup Challenge 9: Regional Pitching Competition, DICT   October 2024
Top 1 Qualifier in NCR
- Pitched a scalable edtech platform prototype, demonstrating innovation and alignment with business goals.

iThink Hackathon: Pump Up the Jam, Isla Camp PH   September 2024
Champion
- Presented Clash Bytes, an innovative learning platform that makes online courses interactive and competitive. It helps secondary students, especially those with potential but limited resources, to succeed in the digital age.

Hooked Unitour, Web3PH   September 2024
Champion
- Developed an innovative edtech platform prototype combining advanced gamification strategies and Web3 integration.

NextGen Startup Challenge 2024, Mapúa University – Makati   July 2024
Top 4
- Conceptualized an AI platform to provide food nutrition knowledge and promote dietary habits using computer vision.

DLSU Hackercup '24, De La Salle University   July 2024
1st Runner Up
- Designed a gamified e-learning platform to boost engagement and improve knowledge retention among young learners.

FEU Ideathon: CODEQUEST, Far Eastern University – Manila   April 2024
1st Runner Up & Best in Poster
- Conceptualized and designed an AI-powered health diagnostic platform prototypes, leveraging statistical analysis and machine learning to generate predictive insights.

LICENSES & CERTIFICATIONS

- **2025 SAS Curiosity Cup Participant**   May 2025
  SAS
- **Databases and SQL for Data Science with Python**   December 2024
  IBM
- **Responsive Web Design**   August 2023
  freeCodeCamp

SEMINARS & WORKSHOPS ATTENDED

DIAMONDS 2024: The Financial Summit
University of Santo Tomas, SOCC   November 2024

Echelon Philippines: Forging the Tech Frontier Scaling onto the Global Startup Arena
Echelon Philippines   September 2024

UX Bootcamp
Ateneo de Manila University   October 2024

BPI DATAWave Workshop
Bank of the Philippine Islands   October 2024

Data Science Workshop: Professor Widom's Instructional Odyssey
De La Salle University   September 2024

Virtual Protocols: Data Scraping Bootcamp
Virtual Protocol PH   August 2024

TechBayanihan 2024: Copilot Para sa Bayan
TechBayanihan   August 2024

UX+ Conference 2024
UXPL   August 2024

Stratpoint's Cloud Series Workshop
Stratpoint, University of Santo Tomas   June 2024

National DOST Scholars Summit 2024
NDSS, University of the Philippines-Diliman   June 2024

CSS Vuja de Tech Talks 2024
Computer Science Society, UST   February 2024

CSS Vuja de Tech Talks 2023
Computer Science Society, UST   March 2024

Evolve: CS Tracks Seminar I
Computer Science Society, UST   November 2023

XPERIENCE: Career-Building Seminar
College of Information and Computing Sciences, UST

CICS Fundamentals: Javascript & GitHub Workshop
College of Information and Computing Sciences, UST

SOCC Leadership Training Seminar 2023
College of Information and Computing Sciences, UST

Valiant Legion Tool 4: Anti-Drug Abuse Awareness and Prevention Campaign
University of Santo Tomas

#CICS-CARE: Community Allies for Responsible E-Citizens Webinar
College of Information and Computing Sciences, UST

Avoiding Predatory Journals for your Research Publication Webinar
University of Santo Tomas

Cybersecurity Awareness Seminar
College of Information and Computing Sciences, UST

UNIK: UST NSTP Ibang Klase 2022
University of Santo Tomas

SKILLS

Technical Proficiencies

- **Programming Languages:** Java, Python, SQL, HTML, CSS, Dart, PHP
- **Frameworks and Libraries:** Flutter, Tailwind CSS, Scikit-Learn
- **Data Management:** Microsoft Excel, Tableau, Python
- **Graphic Designing:** Canva, Adobe Illustrator, Adobe Photoshop

Soft Skills

- Competent in creating and managing training programs; handled project management roles and organization-related works.
- Analytical proficiency in data analysis and reporting for logistics performance metrics.
- Strong communication skills for effective collaboration with cross-functional teams.
- Adaptable mindset to respond in organizational-wide needs.
- Problem-solving ability to identify issues and implement effective solutions.
- Empathetic leadership to support and mentor team members in their professional growth.
- Organizational skills to manage multiple projects and priorities efficiently.
- Collaborative spirit to foster teamwork and build relationships within the organization.