

Genevieve Navales, Frontend Developer

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LINKS

[My Portfolio](#), [Github Profile](#), [Linkedin](#)

EDUCATION

Sep 2019 — Jul 2023	Bachelor of Science in Computer Science, Caraga State University	Butuan City
	Magna Cum Laude	
	Best Thesis Paper Awardee	
	DOST Scholar	

PROFILE

As a versatile frontend developer, she excels in crafting impactful user experiences across various platforms. With a strong proficiency in web front-end technologies and mobile development, she specializes in creating dynamic solutions. Additionally, her background in startup environments has honed her ability to bring innovative problem-solving to every project. She is committed to delivering high-quality, user-centric web applications that not only meet but exceed expectations.

WORKS

Aug 2022 — Jul 2023	Mobile App Developer & Project Manager, Navigatú TBI	Butuan City
	<ul style="list-style-type: none">Developed the UI/UX design using Figma for the app based on target users' feedback.Utilized Flutter and Supabase to build two multiple-user apps that seamlessly connects households and businesses to local junkshops.Ensured a seamless user experience on various devices by implementing responsive and dynamic interfaces through Flutter.Integrated Supabase services for functions such as user authentication, real-time data storage, and database operations.Thoroughly conducted testing and debugging to identify and rectify software issues and enhance performance.Led day-to-day project coordination, planning, and implementation in collaboration with the team, utilizing Agile tools like Notion, and Google Calendar for on-time delivery.Led the team to win 3 local and national startup competitions garnering 250,000 in total prize money.	
Dec 2022 — Apr 2023	Full-stack Web Developer & Python Developer, Thesis Research	Butuan City
	<ul style="list-style-type: none">Implemented CPU Parallel Computing with Python on the Ramer-Douglas-Peucker Algorithm and improved performance of line simplification of upto 400,000 data points and reduce 96.88% percent of points.Developed the responsive website using ReactJS and Flask that allows public users to use the algorithm to simplify their time-series data.Designed the responsive UI/UX design of the website using Figma.Tested and validated the algorithm's accuracy and efficiency through simulations and experiments.Presented the findings of the project to a panel of experts in the field who commended the practicality of the algorithm.Organized the development of the algorithm as the team leader and lead developer.Conducted extensive research on the applications of the algorithm for real-time analysis of large data sets.Participated in writing the research paper and won the CISCON 2023 Best Thesis Paper Award under the category of Intelligent Systems and Data-Driven Science.	
Jan 2022 — Feb 2022	Full-stack Web Developer, Gravitea Milktea House	Butuan City
	<ul style="list-style-type: none">Collaborated closely with the client to tailor the website design to align with their specific business requirements and financial constraints.Designed the responsive UI/UX design of the website using Figma that showcases the offers of the client's business.Built the website using NextJS and ensured responsiveness throughout various screen sizes.Incorporated Sanity.io as a CMS solution for client to easily update their menu on the site.Developed dynamic animations with Framer Motion and CSS to add engaging elements.Maintained effective communication to ensure timely project delivery and meet client expectations.	

Enhanced Ramer-Douglas-Peucker Algorithm
for Efficient 2D Line Simplification

[Open Research Paper](#)

The Enhanced Ramer-Douglas-Peucker (ERDP) algorithm, implemented in Python, stands out for its emphasis on parallel computing. This approach simplifies lines and curves while preserving their essential characteristics. Particularly valuable for time series data, ERDP addresses the inefficiency of classic RDP for larger datasets due to redundant points. It achieves this by introducing dynamic epsilon values that adapt to the dataset's characteristics. During testing, ERDP demonstrated a substantial reduction in processing time, successfully removing up to 96.88% of data points while maintaining data accuracy.

SKILLS

JavaScript	C++
HTML & CSS	PHP
ReactJS	Git
NextJS	Figma
Flutter	UI/UX Design
Python	Project Management
jQuery	

AWARDS & RECOGNITION

Jun 2023	Best Paper Award, International Conference of Computing and Information Sciences (CISCON) Her thesis paper, 'CPU Optimized Ramer Douglas Peucker Algorithm for Visual Analysis of Time-Series Data,' was honored with the prestigious Best Paper Award in the Intelligent Systems and Data-Driven Science category.	Butuan City
Dec 2022	TECHpreneurs StartUp Champion, SK Federation and City Youth in Development Office Led her team to victory, securing the TECHpreneurs StartUp Champion award with a standout presentation of our innovative technology solution.	Butuan City
Sep 2022	StartU Hackathon Champion, DAPCC In the span of just 2 days, led a dedicated team, developed the Minimum Viable Product (MVP) for their innovative mobile application, built with Flutter and Supabase.	Tagaytay City

REFERENCES

Melbert Bonotan, TBI Director from Navigatu
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Jaymer Jayoma, DIT, Associate Professor from Caraga State University
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