Martin Ruthaivilavan

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Full stack software engineer with 17 years of education technology coaching

Ready to utilize collaborative problem-solving skills, teamwork, adaptability, attention to detail, and analytical thinking to contribute to innovative projects and deliver impactful solutions. Able to bring a unique perspective and make a difference in software development.

Technical Skills

Languages: CSS3, HTML 5, JavaScript, ES6 Node.js, Python
Databases: SQL, PostgreSQL, NoSQL, MongoDB

Frameworks: Django, Flask, Express, React, JSON, Bootstrap
Tools/DevOps: Git, Github, Firebase, Netlify

Experience

Full Stack Software Engineer October 2020 - Present

Contractor

- Led the development of quality website products and web applications for clients with constrained budgets.
- Launched real estate websites which resulted in 30% average increase in user engagement and 20% decrease in bounce rates.
- Collaborated with team members to develop a customer relationship management Demo website using CSS and HTML to showcase innovative web design layout and UX accessibility.
- Developed a centralized hub for over 400 users to access important updates, program products, schedules, and resources.
- Budgeted resources and planned milestones to achieve customers' schedule requirements.
- Constructed Entity Relationship Diagrams with DBeaver and PostgreSQL. Applied queries to document data relationships.
- Scripted a Python rental ROI calculator leveraging OOPs to allow users to formulate decisions on purchasing properties.
- Handled API logic queries to parse JSON data using ElephantSQL to enable users to understand statistical information.
- Optimized user experience by communicating with clients to create responsive scalable websites.

Learning Facilitator: Synthesis June 2021 - August 2023

Teacher, July 2021- May 2022 - ***Instructional Coach,*** June 2022- August 2023

- Assessed and provided feedback to 150 teachers and 200 students for the mission and vision to leverage student agency.
- Researched and developed mental model concept curriculum, specifically systems thinking, economics, and business.
- Integrated Socratic and design thinking methods to enhance students' communication skills.
- Fostered collaborative problem solving environments for students aged 8 - 14 through computer game-based scenarios.

Technology Coach and Teacher

Shekou International School, China July 2012 - June 2017, **Ruamrudee International School, Thailand** July 2017 - June 2020

- Led professional development and mentored staff in the areas of technology and learning innovation.
- Implemented and led self-directed learning program (AMPed) Grades 1-12.
- Published *AMPed A Field Guide to Student and Teacher Agency*, March 2019.
- Coached, collaborated & consulted with staff and students to apply best practice in 1:1 and shared iPad configuration.
- Documented, showcased, and shared contemporary teaching and learning regarding the integral use of technology.
- Taught design, 3D printing, entrepreneurship courses.

Education	**Coe College, Cedar Rapids**, **IA** B.A. Education, Endorsement Sciences
Certificates	**Google UX** Introduction to User Experience
	IDEO Advanced Design Thinking Methodology
	Coding Temple Full Stack Engineering Certificate
Languages	Fluent English	Conversational Thai

Capstone Project

Agriculture Farming Decision Application:

- Engineered a full stack business decision microservice application using React targeting farmers to help make more informed decisions to hold or sell their grain and/or livestock.
- Tested and Built API routes to leverage stock commodity prices to be calculated with the client's current assets.
- Generated a Firestore Database to track user authentication and retrieve user data to facilitate decisions on selling their product.
- Leveraged new technology to legacy business clients to solve problems that were previously difficult and time consuming.
- Deployed code to Netlify to allow the farmers to access the application features publicly.