

# Elankovan M. G.

Frontend Engineer (Blockchain)

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As a person with a strong inclination towards STEM, I am passionate about building software applications that could transform ideas into business, in domains such as finance/business/engineering/scientific.

## Computer Proficiency

Flutter for mobile/web applications	<div><div></div></div>	8/10
Exposure to web3 libraries	<div><div></div></div>	8/10
REST API integration	<div><div></div></div>	8/10
MATLAB for Scientific Computing	<div><div></div></div>	8/10
Python for General Purpose Programming	<div><div></div></div>	6/10
Exposure to HTML/CSS/Javascript	<div><div></div></div>	6/10
Proficiency in Linux OS	<div><div></div></div>	8/10
Shell Scripting in Linux	<div><div></div></div>	6/10
Documentation Skills: Markdown/GitBook/LaTeX	<div><div></div></div>	8/10

## Work Experiences

2021 Oct - Current	<b>Frontend Engineer(Full-time)</b> <i>AMEPAY Pvt. Ltd., Tortola, British Virgin Islands</i> <b>Job roles:</b> <b>(1)</b> To design mobile apps based on user requirements and balanced functional and aesthetic designs <b>(2)</b> Frame the API requirements based on the app's functional needs <b>(3)</b> perform unit testing and responsible for app's performance <b>(4)</b> Occasionally involved in UI/UX design & wireframes
2021 Jan - 2021 July	<b>Project Lead (Contract)</b> <i>Prepleaf Preparations Pvt. Ltd</i> <b>Roles &amp; Responsibilities:</b> Planning the project; Assigning tasks to course instructors; Monitoring the progress. Also responsible for strategic marketing and sales of the product/services offered.
2017 Jun - 2020 Dec	<b>Mathematics Instructor (Part-time)</b> <i>I'M AN IAS Academy, Chennai, Tamil Nadu</i> 300+ Hours of classroom teaching experience and 35+ Hours of online teaching experience in <b>Engineering Mathematics</b> students preparing for civil services examination
2016 May - 2017 June	<b>Associate Content Developer (Full-time)</b> <i>Way To Victory Pvt. Ltd., Chennai, Tamil Nadu</i> (1) Prepare the course resource material and LaTeX documents (2) To Prepare the transcript for the video lectures (3) To prepare MCQs based on the given topics

## Education

2017 July - 2020 Feb	<b>Master of Science: Interdisciplinary(Mechanical &amp; Physics)</b> <i>IIT Madras - Chennai</i> <b>Computer Simulations of Grain Boundary Interfaces using LAMMPS</b> Numerical simulations of heat transport phenomenon at boundary interfaces in a polycrystalline material at the nanoscale using Molecular Dynamics Simulation techniques using LAMMPS software.
2012 July - 2016-Jun	<b>Bachelor of Engineering: Mechanical Engineering</b> <i>Thanthai Periyar Govt. Institute of Technology - Vellore</i>

2010 Jun - 2012 Jun	<b>Higher Secondary: Computer Science</b> <i>Velammal Matric Hr. Sec. School - Chennai</i>
2009 July - 2010-Jun	<b>High School</b> <i>Velammal Mat. Hr. Sec. School - Chennai</i>

Courses

- Academic Coursework:**
- Applications of Molecular Dynamics **(9/10)**
  - Finite Element Analysis **(8/10)**
  - Foundations of Computational Materials Modelling **(8/10)**
  - Structure and Properties of Grain Boundaries and Interfaces **(7/10)**
  - Advanced Mechanics of Solids **(7/10)**
- Leadership Courses:**
- Innovative Entrepreneur **(9/10)**
  - Urban Resilience **(9/10)**
  - Winter School on Social Entrepreneurship **(8/10)**
- Online Courses:**
- Introduction to Flutter Development using Dart | **AppBrewery** | Apr 2020
  - AWS Cloud Practitioner Essentials | **AWS training** | Apr 2020
  - Introduction to Statistics With Matlab | **Matlab Academy** | Dec 2019
  - Introduction to Linear Algebra With Matlab | **Matlab Academy** | Nov 2019
  - Machine Learning With Matlab | **Matlab Academy** | Sep 2019
  - Deep Learning With Matlab | **Matlab Academy** | Jun 2019
  - Joy of Computing Using Python | **NPTEL-IIT Ropar** | Apr 2019

Projects

- AME Wallet [Published June 2022]:**
- AME Wallet is crypto-currency wallet application that helps to connect with etherium and amechain blockchain to send & receive transactions[**Flutter Application(Android & iOS)**]
  - The application is feature rich with Burn & Mint, Biometric lock, AES Encryptions for storing private keys[[Play Store link](#), [App Store link](#)]
- Ozone Wallet[Ongoing Project]:**
- A crypto-currency wallet application to connect with ozonechain blockchain to interact with smart contract, send and receive transactions [**React Native Application**]
- Exchange Rates[Published Internally]:**
- The app performs heavy computation in the client front end from the order book api data - to calculate the market price based on the set volume and buy/sale stock available [**Flutter Application(web & iPad)**]
- Academic Research Projects:**
- Kapitza Resistance and Energetics of Symmetrical Tilt GBs in Silicon[**MS Research Project**]
  - Investigation and Design of customized Airfoil for Low-Speed Vertical Axis Wind Turbine[ **UG Project**]
  - Kinetic Energy Recovery System Adopted Bicycles[**UG Mini Project**]
  - Conceptual Design of Electromagnetic Damper for Motorcycle Suspension [ **Journal Publication**]
  - Numerical solution for plane problems using Finite Element approach [ **Course Project: ME6800**]
  - Uniaxial Tensile Test of Single Walled Carbon Nanotube: A MD approach[ **Course Project: AM6512**]
  - MD Simulation of Dislocation Dipole[**Course Project: ME7244**]
- Social Projects:**
- Urban Horticulture Project [ **Course Project: ID5120**]
- Computer Applications:**
- **Static web pages published on Git pages**
  - **Flutter Application(Android App)**
  - **Code Correction Web App**

Accomplishments

- Selected in **International Winter School on Social Entrepreneurship**, IIT Madras
- **Published** a paper titled " *Conceptual design of Electromagnetic Damper for motorcycle suspension* " IJERT, Vol.4, Issue 08
- **Winner** : Paper presentation in National Technical Symposium-2014, CIPET, Chennai
- **Best Paper presentation award** CRANIKZ Symposium 2015, TPGIT, Vellore
- **Winner** : CAD Modelling in National Symposium-2014, CIPET, Chennai
- **Winner** : CAD Modelling in National Symposium-2015, Velammal Engg. College
- **Winner** : CAD Modelling in National Symposium-2015, Adhiparasakthi College of Engg.

Other Interests

Carnatic Music, Cycling & Swimming