# Elankovan M. G.

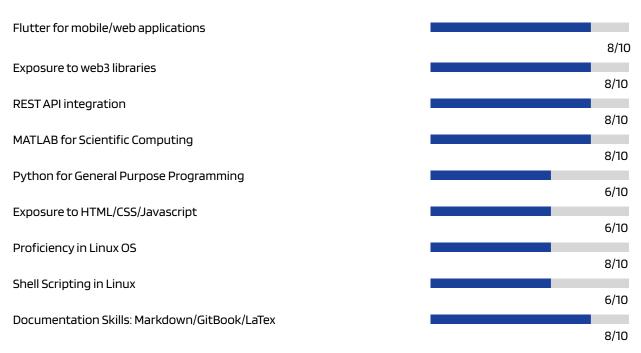
Frontend Engineer (Blockchain)

AMEPAY Pvt. Ltd elankovanmg@gmail.com +91 99402 75422 LinkedIn <a href="https://www.linkedin.com/in/elankovanmg/">https://www.linkedin.com/in/elankovanmg/</a>

Website https://ilailabs.github.io/

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**



## **Work Experiences**

# 2021 Oct - Current Frontend Engineer(Full-time)

AMEPAY Pvt. Ltd., Tortola, British Virgin Islands

**Job roles: (1)** To design mobile apps based on user requirements and balanced functional and aesthetic designs **(2)** Frame the API requirements based on the app's functional needs **(3)** perform unit testing and responsible for app's performance **(4)** Occasionally involved in UI/UX design & wireframes

# <sup>2021 Jan - 2021 July</sup> Project Lead (Contract)

Prepleaf Preparations Pvt. Ltd

**Roles & Responsibilities**: 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 Mathematics Instructor (Part-time)

I'M AN IAS Academy, Chennai, Tamil Nadu

300+ Hours of classroom teaching experience and 35+ Hours of online teaching experience in **Engineering Mathematics** students preparing for civil services examination

# 2016 May - 2017 June Associate Content Developer (Full-time)

Way To Victory Pvt. Ltd., Chennai, Tamil Nadu

(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**

# <sup>2017 July - 2020 Feb</sup> Master of Science: Interdisciplinary(Mechanical & Physics)</sup>

IIT Madras - Chennai

## Computer Simulations of Grain Boundary Interfaces using LAMMPS

Numerical simulations of heat transport phenomenon at boundary interfaces in a polycrystalline material at the nanoscale using Molecular Dynamics Simulation techniques using LAMMPS software.

# <sup>2012 July - 2016-Jun</sup> Bachelor of Engineering: Mechanical Engineering

Thanthai Periyar Govt. Institute of Technology - Vellore

<sup>2010 Jun - 2012 Jun</sup> Higher Secondary: Computer Science

Velammal Matric Hr. Sec. School - Chennai

2009 July - 2010-Jun

## **High School**

Velammal Mat. Hr. Sec. School - Chennai

#### **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

Winner: CAD Modelling in National Symposium-2015, Adhiparasakthi College of Engg.

- 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

# Other Interests

Carnatic Music, Cycling & Swimming