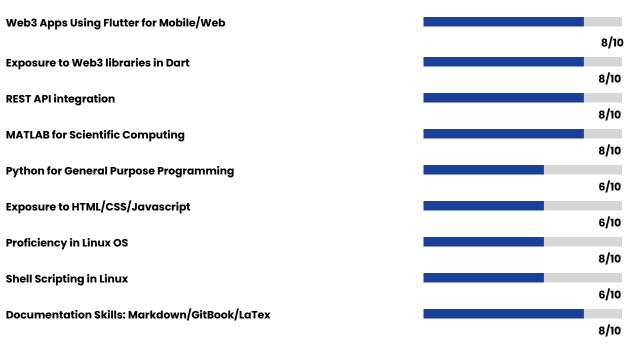# Elankovan **M. G.**

Flutter App Developer (Full-stack) · 2+ Yrs

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https://ilailabs.github.io/

As a person with a strong inclination towards computer technology, I am passionate about building software applications that could transform ideas into great products and help businesses and enterprises.

Computer Proficiency

Skill	Rating
Web3 Apps Using Flutter for Mobile/Web	8/10
Exposure to Web3 libraries in Dart	8/10
REST API integration	8/10
MATLAB for Scientific Computing	8/10
Python for General Purpose Programming	6/10
Exposure to HTML/CSS/Javascript	6/10
Proficiency in Linux OS	8/10
Shell Scripting in Linux	6/10
Documentation Skills: Markdown/GitBook/LaTex	8/10

Work Experiences

2023 May-Present

Load Developer - Mobile Apps - (Full-time Freelance/Contract)
XAULTS INDIA PVT. LTD, Chennai

Job roles:
(1) To **develop the mobile apps UI Screens** as per the UI designs;
(2) Design **reusable widget components**.
(3) Developers' guide and documentation;

2023 Feb - 2023 Apr

Technology Consultant(Startups) - (Contract)
ILAILABS CONSULTING, Bangalore (Founding Member)

Job roles:
(1) To design systems and **PRD from the client requirements**;
(2) **Design wireframes and prototypes**.
(3) Research feasibility of requested features and **recommend tech-stack**;
(4) Project planning and task delegation;

2021 Oct - 2023 Jan

Frontend Developer(Mobile Apps Flutter) - Web 3 (Full-time)
AMEPAY, Tortola, British Virgin Islands (Remote)

Job roles:
(1) To design and develop **mobile apps for crypto transactions**;
(2) **Connect with Ethereum blockchain** and **interact with smart contracts**;
(3) Implement token burn and coin minting;
(4) Involved in **UI/UX design, Wireframes and PRD** - from ideation to production launch;

2021 Jan - 2021 July

Product Manager (Freelance/Contract)
Prepleaf Preparations, India

Roles & Responsibilities:
(1) Work on the ideas and convert them into **wireframes**;
(2) Take responsibility for release of the features and **product ownership**;
(3) Work closely with the development team to realize the product features;
(4) Monitoring the progress. Test product, release testing reports;

2017 July - 2020 Feb

Research Scholar(Full-time)
IIT Madras, India

Job roles:
(1) Develop **command line applications using Python** to create the material models for **Numerical simulations** of heat transport phenomenon;
(2) Responsible for **code-maintenance** and **adding any new desired feature** as per the documentation;

(3) Responsible for **preparing and maintaining API documentation;**
(4) Process bulk data using Python and **Matlab to derive research insights**

Education

2012 July - 2016-Jun	**Bachelor of Engineering:** Mechanical Engineering Anna University, Chennai (Thanthai Periyar Govt. Institute of Technology, Vellore)
2010 Jun - 2012 Jun	**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

Xaults Mobile App:
- CBDC mobile wallet application that enables the transactions of RBI's e-Rupee

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:
- A crypto-currency wallet application to connect with ozonechain blockchain to interact with smart contract, send and receive transactions

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

Classical Music, Cycling & Swimming