Mehmet Selim Suna

Software Developer | Computer Engineering Student

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SUMMARY

Computer Engineering student at İnönü University, co-founder of Trellis (non-custodial family finance on Solana) and software developer at Caladrius, building front ends for AI SaaS products. Builds full-stack web and mobile applications with React, Next.js, React Native, FastAPI, NestJS and Spring, and has shipped work in robotics (ROS 2 on Jetson) and in-browser machine learning. Vice President of the IEEE İnönü Student Branch.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, Rust, SQL

Frontend and Mobile: React, Next.js, React Native, Expo, Tailwind CSS, Leaflet.js

Backend and Databases: FastAPI, Node.js, NestJS, Spring Framework, REST APIs, WebSockets, PostgreSQL, MongoDB, Redis, Supabase, Prisma

AI and Data: PyTorch, TensorFlow.js, ONNX, OpenCV, YOLO, Pandas, NumPy, Gemini API, n8n, Qiskit

Systems and Tools: Docker, Linux, Git, CI/CD, ROS 2, NVIDIA Jetson Orin Nano, Solana, Anchor

Practices: Microservices, OOP, SOLID, Design Patterns, Agile/Scrum

WORK EXPERIENCE

Co-Founder & Software Engineer, Trellis (family finance on Solana) | github.com/Zer0C00l/Trellis | *Sep 2026 – Present*

- Co-founded Trellis, a non-custodial USDC family vault on Solana that lets relatives and guardians support an older family member without holding their keys; pitched for the Colosseum hackathon.
- Built the Next.js/TypeScript dashboard (wallet connection, USDC deposits, beneficiaries, guardian M-of-N approvals, recovery) wired to the Anchor program via its IDL.
- Worked on the Rust/Anchor program (12 instructions: payee allow-list, 48-hour new-payee cooldown, UTC daily limits with guardian-approved requests, 72-hour owner rotation) and its devnet deployment.
- Contributed to the Tauri 2 family app and Slint touchscreen kiosk (WCAG AAA, English/Russian); 350 passing workspace tests.

Software Developer, Caladrius | *Aug 2025 – Present*

- Build and deploy frontend interfaces for AI-driven SaaS applications using React and TypeScript, delivering reusable, component-driven UI modules.
- Integrate client apps with backend microservices, streamlining data flow and state management.
- Apply clean code, SOLID principles and modular design patterns; work with product teams to refine API contracts and improve client-side performance.

Vice President (previously Computer Society Chair), IEEE İnönü Student Branch | *2025 – Present*

- Oversee operations and cross-committee coordination for a 100+ member engineering branch. Designed and led practical training series in Python, Data Science and Machine Learning using interactive notebooks and workshops.
- Set up mentorship for junior members preparing for competitions, open-source work and hackathons.

PROJECTS

QuantVantage AI – Real-Time Sentiment and Price Forecasting | github.com/fylexcon/quantvantage-ai | *2026*

- Built a market analysis platform with Next.js, React Native (Expo), FastAPI, PyTorch and Supabase.
- Automated news ingestion with n8n and a Gemini agent that scores sentiment per ticker; served forecasts through asynchronous FastAPI endpoints.

NOCTIS-ORBIT – Client-Side SAR Analytics, NASA Space Apps Challenge | github.com/fylexcon/NOCTIS-ORBIT | *2025*

- Engineered an in-browser geospatial platform that processes Sentinel-1 SAR imagery on client hardware without GPU servers, using TypeScript, TensorFlow.js/ONNX and Leaflet.js.
- Combined Otsu thresholding and morphology with an AI model to detect water, forest, buildings and roads.

Autonomous Perception Pipeline – Teknofest

- Developed real-time detection and tracking (YOLO12, OpenCV) for autonomous ground operations on Jetson Orin Nano.
- Optimized camera ingestion and ROS 2 topic publishing for low-latency recognition on constrained hardware.

Quant Quantum Lab – Backtesting and QAOA Portfolio Selection | github.com/fylexcon/quantlab | *2026*

- Vectorized SMA/RSI backtests without look-ahead bias, ATR-based slippage, and QAOA portfolio selection in Qiskit.

EDUCATION

B.Sc. in Computer Engineering, İnönü University, Malatya, Turkey | *Expected 2028*

CERTIFICATIONS

- **Microsoft AI Innovators Program** (2026): generative AI, ML deployment, intelligent agents.
- **Data Analysis Bootcamp** (2025–2026): Python, advanced SQL, statistical modeling.
- **IBM Z Day; Techcareer Cloud/DevOps** (2025): cloud infrastructure and CI/CD pipelines.