



ANTONIO VENTILII

Senior software engineer shipping production systems in TypeScript, Rust, and Python across Web3 and traditional finance, including a flagship wallet whose full codebase is public on GitHub. AI-native workflow: orchestrating fleets of coding agents across many parallel projects, with custom agent skills and MCP connectors, while still owning architecture, the hard code, and every review.

WORK EXPERIENCE

Contacts & Links

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Portfolio: ventilii.dev

Personal Info

Date of Birth: 17/06/1989
Nationality: Italian

Languages

Italian: Native
Portuguese: Fluent
English: Fluent
German: Elementary

DFINITY Foundation

ZURICH, SWITZERLAND

Senior Software Engineer

2024 – PRESENT

OISY Wallet (Apache-2.0): production, multi-chain browser wallet on the Internet Computer (TypeScript, Svelte, Rust canisters, chain fusion). Fully public development on GitHub; primary contributor by commit volume (AntonioVentilii; older commits on the repo may still appear under a retired foundation-linked login for the same person). Also collaborates on other foundation initiatives and partner-facing engineering.

- **Solana (mainnet & devnet):** extended the product to SOL and SPL (send, receive, balances/history) with correct account and transaction semantics; integrated chain-key signing paths that differ materially from Bitcoin and Ethereum.
- **EVM scale-out:** shipped Base, Polygon, Arbitrum, and BSC behind one extensible integration pattern and documented how to add further chains.
- **In-wallet services:** swap flows via NEAR Intents (Solana and EVMs) through a pluggable provider model; fiat on-ramp via Onramper (buy crypto without leaving the wallet).
- **Performance / architecture:** moved transaction loading (pagination, caching, persistence) and exchange-rate refresh into canisters with scheduled jobs, reducing browser work and stabilizing UI under real usage.
- **Security / abuse:** rate limits on sensitive endpoints; Internet Identity delegation-chain validation so backend requests align with the legitimate frontend.
- **Product, leadership, tooling:** currency and language preferences and token-list performance work; before a team restructure, owned technical direction, planning, and mentoring; introduced a shared ESLint setup (strict + custom rules) reused across foundation repos; coding agents used heavily for implementation and review.

Vontobel Swiss Financial Advisers AG

ZURICH, SWITZERLAND

(former UBS Swiss Financial Advisers AG)

Desk Developer / Senior Multi-Asset Trader

2020 – 2024

- Cut time on repetitive desk operations from about eight hours to about two hours per day by consolidating work into automation and internal tools; redirected capacity to new builds, controls, execution quality, and trading. Representative software deliverables:
 - Flask API and React web app for rule-based asset screening and analysis, used across **four** teams.
 - FX book end-of-day hedge optimisation (linear programming), cutting related market fees by about **40%**.
 - Python package automating the booking GUI, eliminating manual steps across **7–8** recurring desk workflows; data pipeline for Bloomberg and third-party market data; internal/external API wrappers.
 - Git-based workflows, testing, and DevOps practices adopted desk-wide.
- Executed trades on multi-asset markets (Fixed Income, FX, Equity, Structured Products, Derivatives) for HNWI and UHNWI clients.

Banco Itaú (Suisse) S.A.

ZURICH, SWITZERLAND

Senior Trader / Desk Developer

2019 – 2020

- Led projects to improve trading operations and controls through coding, including:
 - Scraper tooling to automate trading of Certificates of Deposit.
 - Stronger desk controls via automated data collection and analysis (booking, pricing, P&L reporting).
- Executed trades on multi-asset markets (Fixed Income, FX, Equity) for HNWI and UHNWI clients, including derivatives and structured products.
- Designed and proposed trade ideas for Direct Access clients, including new products in Derivatives and Fixed Income.

StoneCo Ltd. Desk Developer / Financial Specialist of Treasury & Risk	SÃO PAULO, BRAZIL 2018 – 2019
• Led automated IPO controls with engineering teams; market-risk tooling integrating internal data; market data from Bloomberg, Yahoo, APIs, and scraping. • Agile (Scrum); Docker/venv and CI/CD with automated tests. • Treasury hedging and IPO proceeds; risk and hedge-account policies for ALCO; market-risk data for regulatory filing (F1).	
Itaú Unibanco S.A. Trader at Volatility Trading Desk	SÃO PAULO, BRAZIL 2013 – 2016
• Ran trading flow on the Volatility and International Trading desks: flow pricing, proprietary risk, and internal client coverage. • Co-developed book controls and a centralised Volatility database (SQL, C#) consolidating data across desk books. • Improved desk automation with layered security and redundancy.	

TECH STACK

Languages: TypeScript, JavaScript, Python, Rust, Solidity, SQL, C++, C#, REX
Frontend: Svelte / SvelteKit, React.js / React Native, Tailwind CSS, Vite
AI / agentic: coding agents (Claude Code) for implementation and review, custom agent skills, MCP connectors, multi-agent workflows
Web3 / ICP: Internet Computer (canisters), EVM, WalletConnect, Internet Identity, chain-key crypto
Backend, data, finance feeds: REST APIs, Postgres, MongoDB, MySQL / SQLite, Bloomberg, Reuters
Platforms & quality: Linux / Ubuntu, Windows, macOS, Docker, GCP, Fly.io, Git (GitHub, GitLab, BitBucket), Vitest, Playwright, CI/CD

PERSONAL PROJECTS

Products (TypeScript): OmbrellOne - live beach-umbrella booking marketplace (ombrell.one): email-OTP and Google auth, listings with photo uploads, Stripe payments where the platform never holds host funds; started on the Internet Computer (Motoko, React), ported to Bun + Elysia + Postgres on Fly.io; **ventilii-graph** - this CV as an interactive career map at ventilii.dev (Svelte 5, Tailwind CSS v4).
AI / agentic: Privatim - sovereign AI for private banking on the Internet Computer: role-gated CRM, hash-chained audit log, AI assistant canister calling an LLM on an attached GPU node, with canister-built citations; **claude-skills** - version-controlled Claude Code agent skills, ready to double as a team plugin marketplace; **Workday AI Control Plane** - developer-AI platform concept: pooled team budgets, quota governance, and provider routing over LLMs behind one stable API.
Blockchain / Rust: icdc-core - ICP canisters exploring clearing-style flows (Rust); **escrow** - smart-contract escrow with web UI (Solidity, React).
Python / APIs: deribit-wrapper - Deribit API client in Python (market data, trading, accounts); 20 GitHub stars / 5 forks; **bitcoin-utxo-lp** - Bitcoin UTXO coin-selection via LP/MILP optimisation.

EDUCATION

University of São Paulo Master's Degree in Aeronautics Engineering International Exchange	SÃO PAULO, BRAZIL 2012 - 2013
Politecnico di Milano Master's Degree in Aeronautics Engineering 2-year merit-based scholarship	MILAN, ITALY 2011 - 2013
Politecnico di Milano Bachelor's Degree in Aerospace Engineering 3-year merit-based scholarship	MILAN, ITALY 2008 - 2011