DAVID PESCARIU

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ABOUT

Results-driven full-stack developer with 3+ years of experience in building dynamic, responsive and accessible web applications and scalable distributed backend systems for B2B SaaS products.

I am committed to creating innovative, pixel-perfect products where quality is the top priority. A collaborative team player with a continuous learning mindset, eager to constantly improve.

WORK EXPERIENCE

Founding Software Engineer - SalesKick   *Sep 2023 - Present* Scottsdale, USA - Remote

- My focus is on building scalable, stable, and distributed systems that empower our clients to maximize sales opportunities each day.
- I've leveraged contemporary AI techniques, including Generative AI, and Sentiment Analysis, to optimize calendar flows and drive an increase of **over 60%** in Lead Show Rate and Lead Quality. This substantial improvement has directly translated into **revenue growth of 2-2.5x** for our clients.
- Using RAGs I have created an immersive experience for leads to boost show rates and make the traditional reminders experience feel way more personal and tailored to the lead's needs.
- Handled product-wide codebase migrations with zero downtime and maintaining critical client flows live.
- As the first engineer on the team, I've played a pivotal role in onboarding new engineers and establishing a comprehensive knowledge base to facilitate smooth transitions and ongoing development efforts.

Full-Stack Developer - Andore   *Feb 2023 - Oct 2023* Vancouver, Canada - Remote

- I worked hands-on in architecting and building complete, modular & scalable products, from MVPs and Product Market-Fit solutions to full-scale production apps & services.
- Built highly modular microservices designed to scale & handle intense bursts of traffic.
- Solutions I created helped businesses increase their revenue by **over 40%**
- Implemented complex frontend apps with an emphasis on UX and a11y.
- Transitioned old codebases and products to modern implementations, increasing DX and decreasing future development time and cost by more than half.

Co-Founder & Full-Stack Developer - Prisma Safety   *Dec 2020 - Feb 2023* Romania, Cluj-Napoca

- Managed our development team and implemented the Prisma App (Flutter), Prisma Websites & Platforms (Svelte/SvelteKit), and all backend infrastructure, including public and private facing REST APIs.
- Developed caching systems using HiveDB to decrease the mobile app's startup time **by 5x**.
- Implemented billing services with Stripe and authentication flows using Auth0.
- Handled CI / CD of our platforms, deploying front-facing platforms on Netlify and managing backend infrastructure on Heroku/Functions and Firebase or Supabase.

Freelance Web Developer   *May 2020 - March 2021* Romania, Remote

- Designed and implemented mobile-first web experiences using Svelte, tailored to my clients' needs.
- Increased traffic to their platforms by **up to 80%**, thereby improving their long-term revenue and reach.

EDUCATION

Technical University of Cluj-Napoca - *Electronics and Communications Engineering*   *10/23 - 07/27 (exp.)*
- Admitted with a GPA of 10.00 for my high school achievements.

Lucian Blaga High School - *Computer Science & Mathematics*   *09/19 - 06/23*
- Won or achieved great results in a great deal of national olympiads and contests, see below.
- Taught a "Flutter for Beginners" course & mentored a team of high schoolers for the AstroPi contest.

PROJECTS

Smart Home System – *Energy Management, Access Control, AI Helper*

Our team built a fully integrated smart home system, consisting of:

- Access Control - ANPR using OpenCV and pytesseract for car access as well as RFIDs for pedestrian access + Guest access via QR Codes for access and device control;
- Device Automatization - Control the blinds, lights, etc., to maintain as much natural light at all times;
- Energy Management & Monitoring - Power, provided by solar panels, and the consumption were logged to see the production/consumption rate.

We won 2nd Place, competing with teams from the UK, China, Ukraine and Romania.

Open Reports – *Svelte, Mapbox, Firebase & Supabase, Netlify*

- Web Platform to collect reports from anonymous users to build a database for Prisma.
- Built with Svelte and Mapbox, open source *here*.
- Do you have an incident to report? Send us one: *reports.prisma-safety.com*

Task Automation / Smart Dashboard – *Svelte, OpenAI, Genezio*

- Web Platform meant to help you with small tasks during your day. As an example - a Regex generator that uses GPT 3 to create an expression that matches your requirements.
- Won 1st Place during the Techsylvania Genezio Challange. Open source *here*.

Event Ticketing System – *Svelte, Supabase, Vercel, bwip, jimp*

- Custom built access control solution for my high school's events, including a batch paper based ticket generator & an online validator Web App.
- Built with Node, Svelte and Supabase (DB & Functions), open source *here*.

Self Driving Car – *Python, OpenCV, Arduino*

- Model self driving car, using a 1:10 car chassis, that would drive by itself around a small course.
- Uses the Raspberry Pi 4 with a PiCamera v2, coupled with OpenCV to detect lanes and an Arduino Uno as a motor-controller and supervisor. Built with Python and C++, open source *here*.

AWARDS

- 2nd Place - The 29th International Computers Contest for Students HARD & SOFT	*May 2024*
- 2nd Place Nationals - Applied Informatics Olympiad	*May 2023*
- Part of the Innovation Labs & FIX Cluj cohorts *(with Prisma Safety)*	*2021 - 2022*
- Won the IT prize at the "10 for Cluj Gala" *(Gala 10 Pentru Cluj)*	*Dec 2021*
- 1st Place (Juniors) - PoliHack 12 Hackathon *(Modular smart farming system)*	*Dec 2021*
- 1st Place Nationals - Applied Informatics Olympiad	*May 2021*
- 1st Place (Juniors) - PoliHack 11 Hackathon *("Vision" system for the blind)*	*Dec 2020*
- Head of Promotion / Valedictorian *(DPIT Academy)*	*Oct 2020*