



Pedro Knup Senior Software Engineer

I'm a Software Engineer with a **decade of hands-on experience** in web development, specializing in JavaScript technologies like **React**, **Node.js**, and **Vue.js**. My passion for creating engaging, user-friendly applications drives me to stay on the cutting edge of front-end and back-end development.

Over the years, I've built a diverse skill set that spans everything from crafting **seamless interfaces** and **IoT** to **managing databases** and navigating **DevOps**. I love turning complex problems into simple, efficient solutions while keeping the user experience front and center.

I thrive in team environments where **collaboration** and **creativity** are valued. Whether mentoring others or working alongside teammates, I enjoy **sharing knowledge**, **tackling challenges**, and **continuously learning** to improve my craft.

I am currently looking for a challenging and exciting position where I can contribute with my technical, social and creative skills.



Online Portfolio

> Contact

phknup@gmail.com
Based in Amersfoort, NL

> Skills

FRONT-END

- React.js & Next.js
- Vue
- Svelte
- Lit.js
- Build Tools (webpack, rollup, Vite)
- Interactive Web Apps (GSAP, Pixi.js, Three.js)

BACK-END

- Node.js
- Python
- .net

MOBILE

- React Native
- Flutter
- Native iOS & Android

DATABASE

- Relational (PostgreSQL, MySQL, MSSQL)
- Non-relational (MongoDB, Firebase)

CLOUD

- Azure DevOps
- Google Cloud Platform
- AWS

> Soft Skills

- Team player
- Leader
- Social
- Screative
- Eye for design

> Languages

- Portuguese (BR) **NATIVE**
- English **ADVANCED**
- Spanish **INTERMEDIARY**
- Italian **BEGINNER**
- Dutch **ELEMENTARY**

Professional Experiences

Senior Software Engineer Rabobank (via FrontValue) Sep/2023 – Now

As a senior full-stack engineer, I play a central role in the development and modernization of Rabobank's internal Developer Portal, a critical tool **used by hundreds of engineering teams across the organization**. The portal consolidates legacy systems into a unified platform built on Spotify's Backstage framework, streamlining development workflows, service discoverability, and compliance.

- Full-stack development of key portal features using **TypeScript**, **React.js**, and **Node.js**, focusing on usability, security, and maintainability.
- Led the design and implementation of core plugins and custom components for **Backstage**, enhancing internal tooling and developer productivity.
- Engineered integrations with **Azure DevOps**, enabling automated service onboarding and status reporting.
- Oversaw **CI/CD pipeline improvements**, reducing deployment time by 30% and ensuring seamless delivery across multiple environments.
- Spearheaded the adoption of **Microsoft Power Automate** to automate repetitive manual workflows, saving hundreds of engineering hours.
- **Mentored junior developers** and new team members, fostering knowledge sharing, pair programming, and code review practices.
- Partnered with architecture and security teams to enforce compliance and implement organizational standards across the developer ecosystem.
- **Authored and maintained Architecture Decision Records (ADRs)** to document and justify complex architectural choices, fostering transparency, alignment across teams, and long-term maintainability.
- Participated in **technical interviews**, evaluating candidates for team fit and technical excellence, successfully helping to onboard high-performing new colleagues.
- Actively participated in roadmap planning, identifying scalability issues and proposing solutions aligned with business goals.

Skills: TypeScript · React.js · Node.js · Backstage · PostgreSQL · SQLite · Azure DevOps · CI/CD · Microsoft Power Automate · Unit Testing · Documentation · DevOps · Technical Mentoring · Software Architecture.

Senior Front-end Developer Media.Monks Feb/2021 – Aug/2023

At Media.Monks, I played a key role in architecting and delivering innovative web applications for global clients such as **Google** and **General Motors**, including flagship projects like the **Pixel 6 Launch**, **Google Cloud Chess.com**, **General Motors Exhibit Zero** at CES 2022, and the **Chromebook Retail App** (2021, 2022 and 2023).

- Spearheaded the development of the **Chromebook Retail App**, leading frontend architecture, contributions to the UI/UX design, and cross-functional coordination to ensure timely, high-quality delivery.

Engineered performant and responsive applications using **Lit.js**, **Vue.js**, **React.js**, and **Node.js**, with a strong emphasis on scalability, accessibility, and SEO.

- Integrated **AI-driven tooling** to automate Jira task management, improving workflow transparency and reducing manual reporting overhead.
- Optimized application performance through **advanced caching strategies**, bundle analysis, and lazy loading techniques.
- Designed interactive UI flows and animations, enhancing the visual experience for consumer-facing launches like **Pixel 6** and **Google Cloud Chess.com** showcase.
- **Collaborated directly with clients**, translating requirements into technical deliverables, aligning project scope, and actively managing stakeholder expectations.
- Participated in and facilitated **Agile ceremonies**, contributing to sprint planning, retrospectives, and backlog grooming to ensure delivery alignment.
- Authored and reviewed **architecture decisions**, documenting complex trade-offs and leading frontend standardization across project teams.
- Promoted engineering excellence through rigorous code reviews, pair programming, and mentorship of junior developers across multiple teams.
- Occasionally contributed backend features in **Python**, collaborating with backend engineers and QA teams to deliver integrated solutions.

Skills: Front-end Development · Back-end Development · python · VueJS · ReactJS Lit.js · Angular.js · Node.js · GreenSock Animation Platform (GSAP) · Glue · Redux

Back-end Developer CowManager B.V.

Jul/2020 – Jan/2021

Responsible for maintaining and improving core web services and databases for agricultural monitoring systems. Implemented new features, troubleshoot issues, and collaborated with cross-functional teams using Scrum methodology.

Skills: Microsoft Azure · Vue.js · Scrum · Microsoft SQL Server · Entity Framework · .NET Framework.

Fullstack Developer Pycom Ltd.

Oct/2019 – Jun/2020

Fullstack Developer at Pycom Ltd., an IoT technology company. Developed IoT dashboard and maintained Pymakr extension for VSCode and Atom. Led development of Pymakr 2 and Pymakr online, a web-based IDE for Pycom devices. Focused on MicroPython-based solutions and cloud integrations.

Skills: ES6 · Webpack · Jest · Mocha (JS Framework) · Docker · GraphQL · Code editors plugin development (VSC and Atom) · React.js · Node.js · Scrum · MongoDB

Front-end Developer Intern Webbio B.V.

Mar/2019 – Oct/2019

The job that brought me to the Netherlands. At Webbio, I focused on developing React.js applications and ensuring high performance and SEO standards. I contributed significantly to the Blackfriday Nederland e-commerce portal, designed to handle high traffic while being blazing fast.

Skills: Redux · Swagger · Formik · ES6 · React.js · Scrum · TypeScript

Fullstack Developer Clubpetro

Sep/2018 – Feb/2019

Fullstack Developer at Clubpetro, leading the complete rebuild of the company's primary product. Responsible for technology selection, database design, app layout, and web service development. Provided mentorship to colleagues throughout the project.

Skills: Vue.js · React.js · Scrum · Microsoft SQL Server · Entity Framework · .NET Framework · TypeScript

Computer Engineering Intern Vale S.A.

Jan/2018 – Aug/2018

Developing web applications with .NET and VueJS. Created a smart Telegram bot for automated information delivery. Gained extensive experience with SQL Server, focusing on query optimization and database development.

Skills: Web Services · Node.js · HTML · Microsoft SQL Server · SQL

Freelancer Developer Self Employed

Jan/2014 – Jan/2018

Freelance fullstack developer working on diverse projects including web, mobile, and Windows apps. Developed notable projects like “Estádio Sonoro” (interactive karaoke app), “SIHP” (hotel management system), and “Cabe+1” (carpool app). Responsibilities included architecting, designing, and developing applications, client negotiations, and problem-solving for legacy systems.

Skills: .NET Framework · Delphi · jQuery · Google Firebase · Xamarin · VanillaJS · Vue.js · Node.js · MySQL · Entity Framework · MongoDB

IT Intern CEFET-MG

Oct/2019 – Jun/2020

Providing technical support to faculty and students. Responsible for maintaining and updating IT infrastructure. Developed a Redmine Server for internal use, enhancing project management and collaboration. Tasks included troubleshooting, resolving IT issues, and updating university IT infrastructure.

Skills: Network Administration · IT Hardware Support · Front-end Development · Scrum · Web Services

Education

Computer Engineering (dropped) Universidade Federal de Itajubá (UNIFEI)

Jan/2015 – Mar/2019

Dropped at my fifth and last year of graduation to pursue my dream to move to Europe. I studied Computer Engineering at UNIFEI, a top Brazilian engineering school. Actively involved in extracurricular activities including robotics team, programming marathons. Gained coaching experience as a Programming Logic and Algorithms & Data Structures support teacher, and participated in volunteer IT consulting (Junior enterprises) for local businesses.

Computer Technician Integrated to Highschool CEFET-MG

Jan/2011 – Dec/2013

Completed Computer Technician program integrated with High School at CEFET-MG. Curriculum covered programming logic, data structures, databases, electronics, and electrical systems.

