Arnaud Obri

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Professional Summary

I'm a professional with a strong background in academic research, now moving into software development. With over 10 years of experience in analytical thinking and problem-solving, I've recently completed an intensive bootcamp focused on the MERN stack. This transition allows me to bring a unique blend of research methodology and complex problem-solving skills to the field of software development. I'm excited to apply my knowledge and experience to create innovative solutions in this new domain.

Technical Skills

- **Frontend:** React.js, Next.js, Javascript , Typescript, HTML5, CSS3
- **Backend:** Node.js, Express.js, Hono
- **Database:** MongoDB, Mongoose
- **Version Control:** Git, GitHub
- **Development Tools:** VS Code
- **Testing:** Jest, React Testing Library
- **Additional Skills:** RESTful APIs

Software Development Projects

Project 1: aiforhealthcare.com (12/2024)   Live Demo Link GitHub Link

- Modern directory platform for AI healthcare companies built with Next.js and TypeScript, featuring SEO optimization and server-side rendering.

Technical Highlights:

- Engineered full-stack application using Next.js 14 with TypeScript for type safety
- Implemented server-side rendering and Server Actions for optimal performance and SEO
- Built responsive UI using Tailwind CSS and Shadcn components
- Integrated MongoDB for efficient data storage and retrieval
- Created dynamic blog system with MDX for rich content creation
- Applied SEO best practices leveraging Next.js features

Technologies:
- Next.js
- Typescript
- MongoDB
- TailwindCss
- Shadcn
- Server Actions

Project 2: travel   (03/2024)   Live Demo Link | GitHub Link

- Comprehensive full-stack MERN application for travel listings with user authentication and favorites

Technical Highlights:

- Architected complete MERN stack solution with React frontend and Express/MongoDB backend
- Implemented secure user authentication and authorization using JWT
- Designed RESTful API endpoints for user management and travel listings
- Optimized React performance using advanced hooks (useMemo, useCallback)
- Deployed and managed backend infrastructure using Coolify on VPS
- Built responsive UI with Tailwind CSS for modern, mobile-first design
- Implemented client-side data caching with Axios for improved performance

Technologies:
- Vite
- React.js
- Express.js
- MongoDB
- TailwindCss
- JWT
- React Router

Project 3: MoviePicker (02/2024)   Demo Link | GitHub Link

- Full-stack movie recommendation application showcasing modern React development practices and testing implementation.

Technical Highlights:

- Developed responsive frontend using React with Vite for optimized build performance
- Implemented RESTful API integration with TMDB using Axios.
- Created comprehensive test suite using Jest and React Testing Library
- Styled application using Styled Components and Tailwind CSS for maintainable, modular design

Technologies:
- Vite
- React.js
- Styled Component
- Jest
- React Testing Library
- Axios

Professional Experience

Software Development Training

Fullstack Web Development Bootcamp Rock{theCode} thePower Tech School   2023-2024

▷ Completed self-paced full-stack development program in 6 months (designed for 12 months), demonstrating strong dedication and rapid learning ability

Frontend Development:

▷ **MoviePicker:** React application implementing Jest/RTL testing suite, TMDB API integration, and Styled Components

▷ **Games Collection:** Interactive React app featuring multiple games (Hangman, TicTacToe, Sudoku) demonstrating complex state management

▷ **NASA Picture of the Day:** React app featuring API integration, date-based filtering, and dynamic content display

▷ **Weather App:** Interactive weather dashboard with real-time API data and responsive design

Backend Development:

▷ **Basic RESTful API:** Express.js server implementing CRUD operations with single data model

▷ **Advanced RESTful API:** Express.js server featuring related data models and complex queries

▷ **Secured RESTful API:** Express.js application with advanced features: protected routes implementation, rate limiting for API security, CORS configuration, cloud-based image upload (Cloudinary)

Academic Research Experience

Associate Research Scientist   IDIBAPS   Barcelona, 2018-present

▷ Led research 3 projects in neuroscience and epigenomics
▷ Analyzed large-scale epigenomics datasets usung statistical methods and data visualization tools
▷ Collaborated with internation research teams accross multiple disciplines
▷ Published 11 peer-reviewed papers in leading scientific journals (Cell Metabolism, Nature Metabolism)
▷ Research work cited more than 1000 times in scientific literature
▷ Successfully secured research funding through grant applications (over 200 000 euros)
▷ Mentored 3 jumior researchers and 3 PhD students

Postdoctoral Fellow   COLUMBIA   New York, 2013-2018

▷ Conducted independent research in various fields from endocrinology, metabolism and neuroscience
▷ Established new research protocols and methodologies
▷ Published 7 peer-reviewed papers, including in Nature and Nature Medicine
▷ Contributed to 3 grant writing and funding applications

Education

PhD In Molecular Biology   Université de Strasbourg   Strasbourg, 2012
Title: Functional and structural study of H2A.Z

Professional Skills & Attributes

Collaborative mindset & Communication:

▷ Extensive experience in international teams at IDIBAPS (Spain) and Columbia University (United States)
▷ Strong track record of knowledge sharing and mentoring
▷ Practice giving and receiving constructive feedback across diverse teams

Adaptability & Resilience:

▷ Successfully transitioned from molecular biology to software development
▷ Proven success working across different countries and environments
▷ Completed 12-month bootcamp curriculum in 6 months through self-directed learning

Problem-Solving & Innovation:

▷ Led complex projects requiring innovative approaches in both research and development
▷ Experience breaking down complex problems through scientific methodology
▷ Demonstrated ability to thrive in ambiguous situations