Daniel Abdiaj

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About Me

As Software Engineer, I have a deep appreciation for the constantly evolving world of technology. I am always seeking out new knowledge and skills, and I thrive on the challenge of solving complex problems. Whether it's working on a team to develop software or finding a difficult technical issue on my own, I am driven to deliver the best possible results. With a passion for learning and a strong work ethic, I am confident that I can succeed in any role in the field of technology.

Education

Epoka University, B.Sc. in Computer Engineering — Oct 2020 – Jul 2023

- **GPA**: 3.7/4.0 (Epoka University)
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory, Discrete Mathematics, Parallel Computing, OS, Data structures, Database, Network etc.

University of Wien , M.Sc. in Computer Science — Mar 2025 – Present

- **Coursework:** Distributed Systems, Information Security Management, Parallel Computing, Foundations of Data Analysis, Information Management and Systems Engineering

Experience

Frontend Software Engineer, Duotech — Nov 2023 – Mar 2024

- Architected and implemented modular Vue.js components utilizing Composition API and TypeScript
- Engineered pixel-perfect responsive interfaces from Figma specifications using SCSS and CSS Grid/Flexbox.
- Developed reusable component libraries following to Atomic Design methodology and SOLID principles.
- Implemented robust state management solutions using Pinia stores with strict typing and actions pattern.
- Orchestrated seamless integration with RESTful APIs using Axios interceptors and custom middleware.
- Optimized component rendering performance through computed properties, watchEffect, and lazy loading.
- Implemented comprehensive debugging strategies using Vue Devtools, Chrome DevTools Vue panel, and source maps for efficient bug tracking and resolution.

Full Stack Software Engineer, Duotech — Mar 2024 – Present

- Engineered full-stack features using Angular.js, Node.js, and MongoDB with Typescript/Javascript.
- Architected and implemented RESTful microservices using Express.js with custom kernel package for centralized error handling, structured logging, and database model management.
- Containerized workers using Docker and orchestrated with Kubernetes for scalability.
- Optimized database queries resulting in improved response times using Elastic-Search.
- Architected and implemented multi-provider HR system integrations using TypeScript/Node.js
- Designed extensible provider configuration system supporting dynamic field mapping and reference data handling
- Built real-time employee synchronization services with AWS SQS integration for event-driven updates
- Implemented OAuth2 and API Key authentication flows with provider-specific credential validation
- Both led and participated in code reviews and pair programming sessions to maintain code quality and knowledge sharing across the team
- Established comprehensive test coverage using Jest for both unit and integration testing, achieving 95% code coverage

- Defined and managed technical tasks in Jira with detailed acceptance criteria, ensuring clear requirements and streamlined sprint planning

Frontend Software Engineer, Freelance Jun 2024 – Present

- Architected a scalable e-commerce platform using Next.js 14 with Server Components and TypeScript.
- Implemented server-side rendering (SSR) and static site generation (SSG) for optimal performance.
- Developed a JWT-based authentication system with re-rotation of tokens for enhanced security.
- Implemented advanced caching strategies using React Context for optimized data fetching.
- Achieved 95+ Lighthouse scores through performance optimization techniques.
- Used Stripe payment processing with webhook handling for automated order management.

Projects

Healthcare Billing Application

- Engineered a high-performance Vue.js application processing a high amount of daily billing transactions.
- Developed a custom state management solution using Pinia with persistent storage and encryption.
- Leveraged AWS Comprehend for automated medical billing classification and intelligent data analysis, achieving accuracy in billing categorization.
- Architected modular component system with reusable components following Atomic Design.
- Tools Used:
  - **Vue.js 3**: For building interactive user interfaces
  - **Ant Design Vue**: For UI component library
  - **Pinia**: For state management
  - **Figma**: For UI/UX design implementation
  - **TypeScript**: For type-safe development
  - **Atomic Design**: For component-based architecture
  - **Vite**: For development and build tooling

Healthcare Training Application

- Developed distributed microservices system processing 20K+ daily users.
- Engineered custom ETL pipelines for third-party HR system using one click integration (Empeon, UKG and Alayacare).
- Optimized Elasticsearch query performance by 89% using custom services and aggregation pipelines for report generation.
- Developed custom Node.js workers for processing high-volume background tasks.
- Implemented multi-level user hierarchy system with custom permissions for organizations, departments, and agencies.
- Developed agency management role supporting healthcare agencies with secure data isolation.
- Tools Used:
  - **TypeScript**: For type-safe backend and frontend development
  - **Node.js/Express.js**: For building REST APIs
  - **React.js/Angular**: For frontend development
  - **Microservices**: For scalable service architecture
  - **Elasticsearch**: For optimized search and reporting
  - **MongoDB**: For database management
  - **RabbitMQ**: For message queuing between services
  - **Docker**: For containerization
  - **Kubernetes**: For container orchestration

  - **Jenkins**: For CI/CD automation
  - **Redis**: For caching
  - **Grafana**: For monitoring
  - **Jest**: For unit testing
  - **Jira**: For SCRUM

Dancing Shoes E-commerce Platform

- Architected scalable e-commerce platform using Next.js 14 and Server Components.
- Developed custom analytics dashboard with Chart.js visualizations.
- Used secure payment processing with Stripe Elements.
- Implement performance improvement through image optimization and lazy loading.
- Tools Used:
  - **TypeScript**: For type-safe development
  - **Next.js v14.1**:
    - Server-side rendering for better performance
    - Dynamic content management
    - Fast API routes
  - **Material UI v5**:
    - Custom theme development
    - Responsive design
    - Reusable components
  - **Chart.js**: For data visualization
  - **Amazon Cognito**: For user authentication
  - **Context API**: For state management