MELBOURNE, VIC, MELBOURNE, AUSTRALIA, 3000 •
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ARMIN AMIRI
Full Stack Developer

PROFESSIONAL SUMMARY

Full-stack developer with a proven track record of delivering impactful web applications. Created the UniHacked AI Chatbot platform, integrating advanced features through a Django backend and React frontend architecture. Developed the Nelody Telegram Music Bot with comprehensive media handling capabilities across multiple platforms and languages. Experience includes designing and implementing responsive websites for businesses that increased client engagement and streamlined operations. Skilled in building robust applications with modern frameworks and best practices. Focused on creating clean, maintainable solutions that deliver exceptional user experiences while meeting business objectives.

EMPLOYMENT HISTORY

FULL-STACK WEB DEVELOPER   Jun 2023 - Jul 2023
Bond Street Barbery   *Melbourne, VIC*

- Developed a website for Bond Street Barbery using React/Vite, Scss, Bootstrap, and Firebase Firestore to store website data. The website operates backendless with data fetched through Firestore API and includes admin authentication.
- Improved website performance using Vite plugins for compression and utilized Million Js for Higher Order Components and Hyper Optimized Virtual DOM to enhance performance.

SALES PERSON   Apr 2022 - Sep 2022
Guzman Y Gomez   *Hawthorn, VIC*

- Balanced and organized cash register by handling cash, counting change, and storing coupons.
- Increased sales and customer satisfaction through personalized servicing.
- Listened to clients and introduced solutions to satisfy business and personal needs.
- Nurtured impactful relationships with customers to cultivate loyalty.
- Informed customers of current store promotions to encourage additional sales purchases.

BACKEND DEVELOPER   Aug 2021
Wealth Sherpa   *Melbourne, VIC*

- Developed a JWT-based user authentication API for an Electron application and debugged the company's Electron application and its Python Fast-API.
- Troubleshot and tested software, debugging to clean up code and improve efficiency.

FULL STACK WEB DEVELOPER   Jan 2025 - Feb 2025
Hairport Barber   *Nunawading*

- Built a website for Hairport Barber to enhance visibility and boost client bookings using React.
- Improved appointment scheduling efficiency through a tailored online platform.
- Utilized React, Vite, and Tailwind CSS to create a modern, user-friendly interface.
- Addressed client needs by integrating a seamless booking system, increasing customer engagement.
- Significantly enhanced the barbershop's online presence, attracting new clientele.

EDUCATION

HIGH SCHOOL DIPLOMA   2022
Swinburne Senior Secondary Collage   *Hawthorn*

BACHELOR'S OF COMPUTER SCIENCE   Feb 2022 - Present
Swinburne University of Technology   *Hawthorne*

CERTIFICATES

CS50W WEB PROGRAMMING WITH PYTHON AND JAVASCRIPT
Harvard University

FUNDAMENTALS OF C PROGRAMMING LANGUAGE
Sharif University

PROFESSIONAL FRONT-END DEVELOPMENT WITH REACT TS
Quera

PROFESSIONAL BACK-END DEVELOPMENT WITH DJANGO
Quera

ADVANCED DEVELOPMENT WITH TYPESCRIPT
Quera

PYTHON PROBLEM-SOLVING AND ALGORITHMIC THINKING COURSE
Quera

ADVANCED PYTHON OBJECT-ORIENTED PROGRAMMING COURSE
Quera

SKILLS

Python *(Expert)*, JavaScript *(Expert)*, TypeScript *(Expert)*, React *(Expert)*, Django *(Expert)*, Node.js *(Expert)*, Electron *(Experienced)*, HTML *(Expert)*, CSS *(Expert)*, Tailwind *(Expert)*, Firebase *(Expert)*, WebSockets *(Expert)*, Docker *(Experienced)*, API Development *(Expert)*, Web Automation *(Expert)*, Linux *(Experienced)*, Cloud Computing, 3D Modeling, Machine Learning, Game Development, Web Security, SEO Optimization, Database Management, Responsive Design, Artificial Intelligence, Performance Optimization, Bot Development, Web Development.

LINKS

Portfolio: <u>arminamiri.me</u>, GitHub: <u>github.com</u>, LinkedIn: <u>www.linkedin.com</u>.

ADDITIONAL INFORMATION

UNIHACKED PLATFORM

UniHacked AI Chatbot - Technical Stack

Core Architecture:
- Backend: Django REST API with Django Channels for WebSocket support
- Frontend: React with TypeScript, Tailwind CSS, and Framer Motion animations
- Database: PostgreSQL with Redis for caching and real-time features
- Message Queue: RabbitMQ for distributed task processing
- Deployment: GitHub Actions CI/CD, Digital Ocean App Platform (Backend), Vercel (Frontend)

AI Integration:
- LLM Orchestration: Custom model selector with fallback system for OpenAI, Claude, and OpenRouter
- Math Computation: Specialized math mode with computation engine integration for advanced calculations
- Vector Database: Qdrant for knowledge retrieval and semantic search
- Document Processing: PyMuPDF, python-docx, and pandoc for multi-format document handling

Chat System:
- Multi-Modal Interface: General, code, and math specialized chat modes with context-aware prompting
- Real-Time Communication: WebSocket-based streaming responses with message persistence
- File Processing: Support for multiple document formats with intelligent content extraction
- State Management: Zustand for global state with React Query for data fetching

Assignment Solver Pipeline:
- Research Engine: Multi-stage research system with Google Search integration
- Content Generation: Template-based document generation with section-by-section processing
- Document Processing: Word document generation with professional formatting to provide the user with a ready-to-submit assignment solution.
- Quality Assurance: Automated validation and revision system for academic standards

User Experience & Security:
- Authentication: JWT-based authentication with TOTP two-factor authentication, security questions, etc.
- Subscription Management: Stripe integration with usage tracking and quota enforcement
- Responsive Design: Highly responsive and optimised for easy and fast touch interactions on mobile devices.
- Error Handling: Comprehensive error tracking with Sentry integration

FLIGHT DELAY PREDICTION SYSTEM

♦ Built with Python, Flask, React, and AI technologies
♦ Trained models using 100k records dataset
♦ Implements Regression, classification, and gradient boosting
♦ Available at flight-delay-predictor.vercel.app

NELODY TELEGRAM MUSIC BOT

Core Technologies

♦ **TypeScript/Node.js**: For type safety, maintainability, and server-side JavaScript execution
♦ **Telegram Bot API**: Using both node-telegram-bot-api and telegraf for comprehensive Telegram integration
♦ **SQLite3**: Lightweight relational database for efficient user data storage and retrieval

External APIs & Services

♦ **YouTube API & RapidAPI**: Multiple endpoints for reliable video search and download with fallback mechanisms
♦ **SoundCloud API**: For track search and download capabilities
♦ **ACRCloud & AudD**: Dual music recognition services for accurate audio fingerprinting
♦ **All-in-One API**: Unified media handling for multiple platforms (YouTube, TikTok, Instagram, etc.)
♦ **FFmpeg**: Audio processing and format conversion

Architecture

♦ **Singleton Pattern**: For core services to ensure single instances and consistent state
♦ **Event-Driven Architecture**: For responsive handling of Telegram events
♦ **Modular Design**: For maintainability and separation of concerns

Key Features

♦ **Multi-source Music Download**: YouTube, SoundCloud, and other platforms
♦ **Audio Recognition**: Identifies songs from voice messages
♦ **Multi-language Support**: 6 languages (English, Persian, Turkish, Chinese, Russian, Spanish)
♦ **User Management**: Statistics tracking, VIP system, blacklist functionality
♦ **Inline Query Support**: For in-conversation music search and sharing
♦ **Playlist Support**: With special privileges for VIP users
♦ **Fallback Mechanisms**: Multiple download strategies to maximize success rate

Deployment

♦ **GitHub Actions**: CI/CD pipeline for automated testing and deployment
♦ **Environment Variables**: For secure configuration management
♦ **Systemd Service**: For reliable production deployment