Pradyumn Tandon

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Summary

Results-driven Grade 12 student and passionate software developer with **6 years of coding experience** and **4 years of professional development**. Specialized in Python programming, AI/ML applications, and full-stack web development. Founded **Kanopus Development**, an open-source organization focusing on AI-powered tools and developer productivity solutions. Achieved **global rank 355 out of 15,000** participants in HPE Codewars 2023, demonstrating exceptional problem-solving abilities. Proven track record of delivering scalable applications that serve **10,000+ users** and increase client engagement by **28-35%**.

Technical Skills

Programming Languages: Python, JavaScript, HTML, CSS, Rust, Go Lang
AI/ML Technologies: Machine Learning, Natural Language Processing, BERT Embeddings, GPT Integration
Libraries & Frameworks: NumPy, SciPy, Scikit-learn, FastAPI, Tailwind CSS, Discord API
Databases: MySQL, PostgreSQL, MongoDB, Redis
Cloud & DevOps: AWS, Oracle Cloud, Heroku, GitHub Pages, Docker
Tools & Platforms: Git, GitHub, Prometheus, Grafana, REST APIs
Specializations: Voice Processing, Real-time Audio Processing, Bot Development, Web Scraping

Experience

Kanopus Development

Founder & Lead Developer, India
03/2023 - Present

- Founded and lead an open-source organization specializing in AI-powered developer tools and productivity solutions
- Developed multiple flagship projects serving thousands of developers worldwide
- Built enterprise-grade applications with advanced security features and audit trails
- Established comprehensive development standards and community contribution guidelines
- Achieved 100% client satisfaction across all delivered projects

Preferred 7 Technologies

Front End Developer, India
02/2022 - Present

- Developed and maintained responsive websites using HTML, CSS (Tailwind CSS), and JavaScript
- Implemented mobile-first responsive designs ensuring seamless cross-device compatibility
- Integrated interactive elements and optimized user experiences, increasing engagement by 28%
- Collaborated with cross-functional teams to deliver high-quality web solutions

Waves MVMNT

Bot Developer & Media Handler, Canada
11/2021 - 02/2022

- Developed sophisticated automation bots using Python and Discord API serving thousands of servers
- Built robust API integrations enabling real-time data operations and external system interactions
- Designed custom bot commands for server moderation, user engagement, and automated data retrieval
- Implemented MongoDB-based data management systems for scalable multi-server operations

Major Projects

Aurelis- AI-Powered Development Assistant
[GitHub: KanopusDev/Aurelis](#)

- **Impact:** Reduced development workflow time by 35% for users
- **Key Features:** Multi-modal AI processing with GPT-4, DeepSeek R1, and O3-mini integration
- **Architecture:** Enterprise-grade security with audit trails and encrypted credential storage
- **Innovation:** Real-time code quality checks and automated testing capabilities
- **Tech Stack:** Python, FastAPI, AI/ML APIs, Advanced Security Protocols
  Canopus - Developer's AI Voice Assistant

[GitHub: KanopusDev/Canopus](#)

- **Description:** Extensible AI-powered voice assistant automating daily development tasks
- **Key Features:** Voice authentication, task automation, Spotify integration, plugin ecosystem
- **AI Capabilities:** Object detection, code generation, semantic search, speech recognition with noise reduction
- **Impact:** Streamlined developer workflows with intelligent code navigation and on-demand code review
- **Tech Stack:** Python, NumPy, SciPy, Advanced Speech Recognition, CLI Interface
  Nova - AI-Enhanced Search Engine

[GitHub: KanopusDev/Nova](#)

- **Description:** High-performance search engine with machine learning enhancements
- **Key Features:** AI-enhanced search rankings using BERT embeddings, intelligent web crawling
- **Performance:** Optimized indexing with comprehensive monitoring via Prometheus & Grafana
- **Architecture:** FastAPI backend with advanced AI integration and OpenAPI documentation
- **Innovation:** Semantic search capabilities with context-aware result ranking
  OrionWave - Professional Voice Processing System

[GitHub: Gamecooler19/OrionWave](#)

- **Description:** Professional-grade real-time voice changing and audio processing system
- **Performance:** 95% pattern recognition accuracy in audio processing algorithms
- **Features:** Multiple voice effects, advanced audio processing, customizable framework
- **Applications:** Real-time voice manipulation with professional-quality output
- **Tech Stack:** Python, Advanced Audio Processing Libraries, Real-time Processing
  Gatria - Enterprise Employee Management System

[GitHub: KanopusDev/Gatria](#)

- **Description:** Comprehensive workforce management platform with extensible architecture
- **Features:** Multiple framework adapters, database integration, real-time analytics dashboard
- **Impact:** Streamlined employee scheduling and task management for organizations
- **Architecture:** Versatile platform design supporting multiple deployment environments
- **Tech Stack:** Python, Database Integration, Real-time Analytics, Multi-framework Support
  Polris - Code-Optimized AI Model

[GitHub: KanopusDev/Polris](#)

- **Innovation:** Custom transformer architecture specifically designed for code processing
- **Optimization:** Memory-optimized training for CPU environments
- **Performance:** Redis-based context storage for efficient conversation management
- **Application:** Advanced code understanding and generation capabilities
  Aoede - AI Website Generation Platform

[GitHub: KanopusDev/Aoede](#)
- **Description:** High-performance platform for AI-powered website generation
- **Architecture:** FastAPI backend with comprehensive OpenAPI documentation
- **Features:** Advanced AI integration for automated website creation and optimization
- **Impact:** Increased organic traffic by 40% for client websites through SEO optimization

Achievements & Recognition

 Global Rank 355/15,000 - HPE Codewars 2023 (Top 2.5% worldwide)
 Discord Verified Developer - Recognition for high-quality bot development serving thousands of users
GitHub Education Program Member - Active contributor to open-source community
 International Mathematics Olympiad (IMO) Participant - November **2021**
 Impact Metrics: Served 10,000+ users across automation solutions, achieved 28-35% client engagement increase

Education

Higher Secondary Schooling

IBS Global Academy, Ujjain
03/2026

Secondary Schooling

St Mary's Convent Senior Secondary School, Ujjain
03/2024

Certifications

- **HPE Codewars Global Rank 355** - HPE (June 2023)
- **Discord Verified Developer** - Discord Inc. (June 2022)
- **GitHub Education Program Member** - GitHub (September 2021)
- **International Mathematics Olympiad Participation** - NSO (November 2021)

Community & Leadership

Open Source Contributor - Active maintainer of multiple open-source projects with focus on AI/ML tools
Community Builder - Leading Kanopus Development community with developers worldwide
Mentor - Providing guidance to new contributors and fostering inclusive development environments
Technical Writer - Sharing insights through documentation, tutorials, and technical discussions

Key Differentiators

- **Early Professional Experience:** 4 years of professional development while pursuing education
- **Entrepreneurial Leadership:** Founded and successfully operate Kanopus Development organization
- **AI/ML Expertise:** Deep experience in cutting-edge AI technologies and practical implementations
- **Global Recognition:** Proven algorithmic skills with top-tier competitive programming results
- **Community Impact:** Built tools and platforms serving thousands of users worldwide
- **Quality Focus:** Maintaining high standards in code quality, documentation, and user experience