

Arina Ovcharenko

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SUMMARY

Aspiring AI engineer with experience building full-stack applications, integrating natural language processing, semantic filtering, and data-driven evaluation frameworks to deliver intelligent and user-focused solutions

EDUCATION

Illinois Institute of Technology, Chicago, IL

Bachelor of Information Technology and Management, Minor in Artificial Intelligence, expected May 2027

Cumulative GPA: 3.8/4.00

Relevant coursework: Cloud Computing; Data Structures & Algorithms; Intermediate Software Development

University of Roehampton, London, United Kingdom

Exchange Semester in Computer Science, Fall 2025

SKILLS

Programming & Development: Python, JavaScript/TypeScript, Java, HTML/CSS

Frameworks & Libraries: React.js, Node.js/Express, Spring Boot

Web & API Development: RESTful API design, WebSockets, JWT Authentication

Tools & Platforms: Git/GitHub, VS Code, Figma, MySQL, Vercel, Docker, Kubernetes, GCP AI Platform, Vapi AI, AWS, PostgreSQL, Canava

AI & Machine Learning: NLP, Prompt engineering, Semantic filtering, Semantic search

PROJECT EXPERIENCE

- PitchPal App, Startup Project** June 2025 – Present
- Developing PitchPal, an interview simulator with a two-part design: a voice-enabled behavioral section that adapts to user responses, and a coding section where users write and explain their code in real time to the AI
 - Built the frontend with React.js for resume upload, interview setup, and adaptive question flow
 - Contributed to backend with Java (Spring Boot), implementing REST APIs, WebSockets, and secure JWT authentication
 - Tested APIs with Postman to ensure smooth frontend–backend communication
 - Collaborated with a cofounder on architecture and feature development, delivering a scalable full-stack solution

- Growvio App, Startup Project** October 2025 – Present
- Co-founded Growvio, an AI-powered business coach that generates daily tailored tasks to help businesses grow.
 - Led frontend development using React.js, designing responsive interfaces and dashboards for task generation and progress tracking.
 - Created and executed social media content and branding strategies to strengthen Growvio's online presence and user engagement.
 - Collaborated on product design and feature direction to ensure a cohesive user experience across web and marketing platforms.

- Search Analysis App, Personal AI Development Project** April 2025
- Built an AI-powered product search tool that interprets natural language queries and returns relevant product matches using semantic filtering
 - Designed a custom evaluation framework to measure the app's understanding of human intent, comparing AI-generated outputs to manually defined expectations
 - Achieved 97% product match accuracy across 100 user-like queries by iteratively refining prompts and improving semantic normalization logic
 - Implemented mechanisms to detect and log missing product types, vague filters, and false negatives for deeper analysis of AI performance

- Enabled the app to distinguish nuanced intent (e.g. "denim pants for summer" → "jeans" + "lightweight" + "season: summer") without relying on hardcoded rules

AI Interview Simulator, Ongoing Personal Project

May 2025 – Present

- Designing an AI-powered mock interview platform that simulates realistic interview conversations using speech-to-text and text-to-speech capabilities
- Integrating OpenAI's streaming API to generate dynamic, real-time responses to user answers, mimicking live dialogue with an interviewer
- Prototyping video avatar integration to deliver questions in human-like video format, enhancing engagement beyond voice-only agents
- Building a React frontend with support for sequential question flow, user response recording, and feedback generation
- Implementing structured logging to retain temporary user sessions and analyze answer quality for future personalization

IT Ticket Management App, Illinois Institute of Technology

December 2024

- Created and managed two database tables in MySQL Workbench: one for trouble tickets and another for user credentials
- Designed and implemented a Java-based application with a user-friendly GUI, featuring a login interface where users enter credentials
- Enabled differentiated access through the interface, allowing admins to perform CRUD operations (create, update, view, close tickets) and regular users to view or delete their own tickets
- Established seamless integration between Java and MySQL tables, utilizing SQL queries for efficient database connectivity and functionality

Antei Company Website, Independent Project

September 2024

- Led complete website development for construction formwork rentals, from initial design to deployment, receiving positive feedback for its clean, intuitive layout and ease of navigation
- Utilized Figma for a dynamic, user-centered design, crafted and assessed custom HTML code in Visual Studio Code, and deployed the site via Hostinger, ensuring seamless functionality and an intuitive user experience

Chem-e-car Website, Chem-e-car Club, Illinois Institute of Technology

October 2024

- Collaborated with a colleague to design and develop the official website for the CHEM-E-CAR Club from scratch
- Created a user-friendly and visually appealing design, including content organization, functional sections, and responsive layouts
- Improved club accessibility by providing streamlined information about joining, team updates, and club news
- Ensured the website is fully optimized for both desktop and mobile devices, enhancing user experience and engagement
- As active members of the organization, continued to support and update the website to encourage new memberships and promote club activities

RESEARCH

HallwAE Research, Illinois Institute of Technology

January 2025-Present

- Conducting user research for HallwAE, an augmented reality application designed to enable spontaneous "hallway conversations" remotely using passthrough AR on the Quest 3
- Responsible for gathering user feedback, formulating meaningful research questions, and contributing to product improvements based on user insights
- Collaborating with a multidisciplinary team to enhance human-computer interaction in AR environments

CERTIFICATIONS

Deploy Kubernetes Applications on Google Cloud Skill Badge

- Configured and built Docker container images, created and managed Google Kubernetes Engine (GKE) clusters, utilizing kubectl for efficient cluster management, and deployed Kubernetes applications with robust continuous delivery (CD) practices

Google Cloud Computing Foundations Certificate

- Completed a learning path covering cloud computing fundamentals, infrastructure, networking, security, and AI. Gained firsthand experience with load balancing, app development environments, and cloud storage integration through courses and labs

Google Cloud Beginner: Introduction to Generative AI Learning Path

EXTRACURRICULAR EXPERIENCE

Member, Track and Field Team, Illinois Institute of Technology, Chicago, IL

August 2024-Present

- Compete in sprints, promoting physical fitness, discipline, and teamwork
- Balance an intense academic schedule with athletic commitments while developing time management and leadership skills