

# Arina Ovcharenko

Chicago, IL | (312) 792-1614 | arinna.ovcharenko@gmail.com | [LinkedIn](#) | [GitHub](#)

## 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, Canva

**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

**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