

# Sangwoo Shin

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## EXPERIENCE

### AI Training Specialist

Nov 2024 – Present

*Outlier.ai*

*Remote*

- Refined large language model performance via rigorous evaluation of 500+ machine-generated responses weekly, resulting in a 20% improvement in overall accuracy and relevance metrics for critical client projects.
- Evaluated AI-generated text for accuracy, coherence, and alignment with predefined guidelines, improving content quality by 30%.
- Spearheaded improvements to AI training datasets, fixing data labeling errors and inconsistencies, leading to a measurable drop in model hallucination rate and improving user satisfaction scores by 15%.
- Identified bottlenecks in AI training workflows, streamlining data annotation by introducing active learning techniques and automating redundant tasks, which improved dataset processing efficiency by 40%.

### Software Developer

Sep 2023 – May 2024

*Ministry of children community and social service (MCCSS)*

*Toronto, ON*

- Engineered back-end systems for AI-powered web applications using Python (FastAPI), enhancing processing efficiency by 35%.
- Spearheaded the automation of critical daily tasks by developing and implementing RESTful APIs, thereby freeing up senior engineers to focus on addressing the three biggest causes of crashes.
- Optimized workflow automation using Power BI, SharePoint, and Power Automate, eliminating redundant manual tasks, reducing processing time by 50%, and enhancing cross-team collaboration through centralized document access.
- Facilitated daily stand-up meetings, promoting clear communication among team members and leading to the identification of key roadblocks, thereby accelerating the resolution of critical path dependencies.
- Presented Power BI workflow automation solutions to senior government officials, converting complex technical demonstrations into actionable insights that improved operational efficiencies by 15% and unlocked new areas of improvement.

### Combat Engineer (Demolition Specialist)

May 2019 – Jan 2021

*Republic of Korea Army*

*South Korea, Yang-Pyung*

- Led a team of 10 engineers, executing complex demolition projects with a 100% success rate.
- Trained and mentored 10+ engineers in demolition operations, boosting mission readiness by 30% through hands-on training and drills.

## PROJECT

### OPS-GPT

- Developed an AI-driven document analysis platform using Python, Streamlit, and PostgreSQL, improving document processing speed by 50%.
- Leveraged LangChain for document embedding and chunking, enabling rapid analysis of 10,000+ pages with optimized retrieval.
- Automated document generation in Python, structuring extracted insights into Word reports, reducing manual workload by 70%.

### University Social Media Platform

- Built a university-exclusive social networking site with Next.js, MongoDB, and JWT authentication, facilitating engagement for 500+ students and handling 10,000+ posts.
- Redesigned user experience, boosting engagement by 60% and retention by 40%.
- Implemented CI/CD pipelines via GitHub Actions, cutting deployment time by 30%.

### AIRE (Architect Intake Review Engine)

- Designed an AI-analyzed risk assessment tool for architecture intake reports, extracting key insights and reducing manual review time by 75%.
- Incorporated AI-driven risk evaluation for enterprise risk management, reducing processing errors by 10%.
- Integrated with OpenAI-based image analysis for architectural reports, increasing data processing accuracy by 30%.

## EDUCATION

### Seoul Cyber University

Seoul, South Korea

*Bachelor's degree, Computer Science*

*GPA: 4.1/4.5*

### Seneca College

Toronto, ON

*Advanced Ontario Diploma, Computer Programming & Analysis*

*GPA: 3.9/4.0*

## CERTIFICATIONS

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|---|---|
| • <b>AWS Cloud Practitioner (CLF-C02)</b> | Validation number: 90f703a4fa104e069be1000fe799bf5f |
| • <b>Azure Cloud Fundamental (AZ-900)</b> | Validation number: 846H29-54DB56                    |

## TECHNICAL SKILLS

- **Programming Language:** JavaScript, Python (Numpy, Pandas, OpenCV, Matplotlib, Langchain), Java, C++, C
- **Web Technologies:** React.js, Next.js, Flutter, HTML5, CSS, XML, Node.js, Express.js
- **Database:** SQL, PL/SQL, Oracle, MongoDB, ChromaDB, PostgreSQL
- **Cloud Platform:** AWS (S3, Dynamo DB, VPC, EBS), Azure (Blob Storage, Data Factory, Virtual Machines)
- **DevOps & Tools:** Docker, Ansible, Jira, Kubernetes, Git, GitHub Copilot
- **Development Tools:** Visual Studio Code, Eclipse, Jupyter Notebooks, GitHub, Microsoft 365 (SharePoint, Teams, Power BI, Power Automate), MS Visio, Lucidchart, Trello, Figma, Wireframe, MS Project
- **Other Skills:** Debugging, Integration Testing, Responsive Design, SDLC, Algorithms, Risk Management, Quality Measures, Teamwork, Agile