Seoyeong Oh

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SKILL

– **Languages & Scripting:** Java, Python, C/C++, C#, SQL, JavaScript, TypeScript
– **Web & Backend Development:** HTML/CSS, Spring Boot, Flask, Next.js, React, Angular, Node.js, RESTful APIs, OAuth2, JWT, JSON
– **Cloud & Infrastructure:** AWS, MS Azure, Docker, Kubernetes, VMs, Spark, Hadoop, Linux/Unix, Networking, Shell/PowerShell
– **Databases & Tools:** MySQL, PostgreSQL, Git, GitHub, Maven, Tableau, JIRA, Trello, Figma
– **AI & Data Science:** PyTorch, TensorFlow, NumPy, Scikit-learn, JAX, LLM, MATLAB, Pandas, LangChain

EDUCATION

Arizona State University   Tempe, AZ | Expected Dec 25
– BS/MS in Computer Science, GPA 4.0, ACM Chair of Industry, IEEE Eta Kappa Nu

WORK EXPERIENCE

Software Developer Intern | AVEVA   (May 25 – Aug 25)
- Will collaborate with a cloud-focused engineering team to build and maintain backend services on Microsoft Azure, enhancing performance, scalability, and reliability
- C#, .NET, MS Azure (Functions, App Services, Cosmos DB, Blob Storage), REST APIs, Azure DevOps, Git, CI/CD, Agile

Software Engineer Intern | Drive Insight   Oct 24 - Present
- Engineer a product dashboard website for Drive Insight, integrating 5+ React components and vehicle compatibility features via RESTful APIs, enabling real-time verification for 17,000+ vehicle variations
- NextJS, React, JavaScript, TypeScript, Tailwind

NLP & Vision Researcher | ASU & National Science Foundation   Sep 24 – Nov 24
- Evaluated AI-generated images and conducted human intelligence task (HIT) on Amazon Mechanical Turk to enhance AI model accuracy
- Improved model evaluation efficiency by 15%, reducing processing time from 6 hours to 5 hours
- Precision in Data Analysis / Thorough Analytical Review, Efficient Workflow Optimization / Deadline-Driven Execution, AI

Software Engineer Intern | General Motors   May 24 – Aug 24
- Developed an Azure Entra ID Configuration Tracker to retrieve application delta changes and ownership information from Microsoft Graph APIs and GM internal APIs, ensuring authentication security through OAuth2
- Designed and constructed a 5-tier, end-to-end full-stack system using Java Spring Boot to handle CRUD operations and CLOB storage
- Enabled real-time tracking of 13,000+ application configurations, eliminating the manual auditing process
- Java, Spring Boot, JWT, MS Graph API, SQL, OAuth2, Angular, JSON, JUnit, GitHub

Software Engineer Intern | General Motors   May 23 – Aug 23
- Enhanced GM software Test Drive Automation platform and Real-time Dashboard by streamlining tools and processes, eliminating third-party tracking services, and creating an interactive dashboard to track issues and surveys, using machine learning algorithms to categorize and assign issues based on optimization subject areas
- Python, Flask, Dash, Pandas, API, HTML/CSS, JSON, GitHub, Figma, Miro

Denoising with Neural Networks Researcher | ASU & National Science Foundation   May 22 – Jul 22
- Implemented CNN-based denoising models and visualization tools to analyze and fine-tune model performance
- Demonstrated that autoencoders achieved 0.24% to 3.79% higher accuracy compared to other denoisers
- Python, Pandas, PyTorch, Anaconda, CNN, MATLAB

PROJECT

AuraMind: Mental Health Chatbot | Python, Gemini Pro, LangChain
– Designed and developed an AI-driven chatbot focused on providing mental health support through empathetic, real-time conversations
– Integrated Gemini Pro via LangChain for natural language understanding and dynamic, context-aware responses

AI-powered Diabetes Prediction Web App | Python, Flask, Pandas, Scikit-learn, HTML, CSS, GitHub
– Built and trained a classification model leveraging Scikit-learn and Pandas to analyze medical data and generate predictions
– Designed an interactive frontend using HTML and integrated it with a Flask backend to enable real-time data input and analysis

DigiClips Media Search Engine | Angular, TypeScript, Node.js, OpenVPN, MySQL, Docker, AWS Lightsail
– Enhanced media monitoring by implementing a real-time error messaging system, reducing incident resolution time by 40%
– Identified and resolved 50+ security vulnerabilities, ensuring 99.9% uptime

Advancing Fairness & Customer Segmentation with ML | Python, PyTorch, TensorFlow, Matplotlib, Seaborn, NumPy, Pandas, Scikit-learn
– Designed CNN and RNN-based ML models, improving prediction accuracy by 12% through data preprocessing and feature engineering

Intel: Data Analysis for Sustainability Project | SQL, Tableau
– Created optimized SQL queries to analyze environmental impact metrics, guiding Intel's $5M+ data center investment decisions

Grammy Awards: Website Audience Analysis | Python, Pandas, Numpy, Plotly
– Led data analysis & visualization of audience engagement metrics, increasing content engagement rates by 20%

Vehicle Management System | C++, OOP, Inheritance, Polymorphism, Encapsulation
– Engineered a vehicle tracking system using object-oriented programming with over five child classes for various vehicle types, while optimizing data retrieval speed by 35% for faster access to details in a menu-driven program managing over 1,000 vehicle records