Ian Jiang

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PROFILE

As a proactive and skilled IT professional, I bring a unique blend of expertise in commercial AI development, independent large-scale model building, and full-stack engineering. With a strong foundation in backend and frontend development, I excel in fine-tuning AI models to address specific business objectives, delivering high performance and reliability. My ability to work autonomously on complex AI projects, paired with effective communication and organizational skills, enables me to drive impactful solutions that align with both company goals and departmental initiatives.

HIGHLIGHTS

Summary	Designed and implemented a new API to streamline application processing. Conducted front-end detection and testing to ensure data accuracy and reliability, enhancing user experience. Collaborated closely with the senior engineering manager. Learn to master the AI fine tunning process and development techniques, tools, and frameworks, and utilize various algorithms.
Technical Skills	**Languages**: Java, Python, JavaScript, GraphQL, SQL, HTML, XML, CSS, MIPS, C, C++, Node.js, Assembly. **Technologies**: Vim, Git, JDBC, Postman, Jenkins, CloudFlare, AWS (EC2 / RDS / S3), PostgreSQL, MongoDB, MySQL. **Development Tools**: Eclipse, VSCode, IntelliJ, Jira, Figma, TomCat, DataGrip, MySQL Workbench. **Framework**: JavaFX, PyTorch, TensorFlow, CUDA, Spring, Maven, SFTTrainer, Transformers **Communication**: Slack, Zoom, Google Docs, Google Chat, Google Meeting, Discord.
Hackathon	Intel, Github, Samsung
Education	BSc in Computer Science, San Jose State University, San Jose, (graduation in 2025).
Keywords	Frontend Development | Backend Engineering | Full-Stack Software Development | AI Model Training | Data Processing | Web Application Deployment | Model Optimization | Collaborative Problem Solving | Analytical Thinking | Technical Adaptability
Distinctions	Cumulative GPA: 3.6/4.0 | Dean's Scholar Computer Science Department| NEC tournament winner | Gold and silver medal winner World's Scholar Bowl.
Courses Taken	Computer Interaction Design | Operating Systems | Formal Languages and Computability| Information Security| Database Management Systems| Object-Oriented Design | Data Structures and Algorithms

WORK EXPERIE

SOFTWARE ENGINEERING INTERN; BACKEND **2023**

TRIPALINK, LOS ANGELES

- **Designed and Implemented New API:** Developed an API for processing apartment rental applications, enhancing functionality in an AI-driven rental recommendation project.
- **Launched Management System Software V1.0:** Led a successful rollout with the Asian team, ensuring seamless implementation and system functionality.
- **Enhanced API Performance:** Coordinated with front-end engineering to optimize the API, improving functionality and user experience.
- **Developed End-to-End Testing Protocols:** Created and executed test plans in collaboration with QA, ensuring timely feature launches.
- **Resolved Feature Conflicts:** Audited and adjusted business logic to align with upcoming features, maintaining system integrity.

- **Addressed Smart Lock and Connectivity Issues:** Partnered with QA to resolve hardware and network challenges impacting smart lock reliability.
- **Met Project Deadlines:** Achieved target launch dates through strong time management and project oversight.
- **Optimized SQL Database:** Created migration scripts to update and streamline existing SQL database schema for enhanced performance.
- **Automated Data Processing:** Reduced manual operations by over 80% through automated data cleaning and Python scripting for the data team.
- **Led Mobile Application Testing:** Directed testing for a new property management mobile app, collaborating with end users and product managers to address operational challenges.
- **Implemented IoT-Enabled Device Monitoring:** Developed a Wi-Fi router lock-in system within Management System Software V1.0, enabling property managers to monitor device status in real-time.

SOFTWARE ENGINEER; FRONT-END, TESTING, DATA BURIAL   2022 – PRESENT
RABBIT HAVEN, SANTA CRUZ, CA
- **Managed Digital Profiles and Workflow Optimization:** Maintained and updated online profiles for each animal using HTML, collaborating closely with staff to ensure accurate and timely information.
- **Front-End Data Tracking and Analysis:** Conducted front-end detection, testing, and data collection to capture visitor metrics and other relevant data points, supporting informed decision-making.
- **Data Processing and Consistency Maintenance:** Streamlined data monitoring by embedding targeted data points, ensuring information consistency and effective tracking across platforms.
- **Developed Web-Based Tools for Process Efficiency:** Designed tools with Python and Java to digitize records, reducing reliance on paper and simplifying administrative workflows.
- **Automated Data Outputs for Animal Records:** Utilized Python to automate text outputs, enabling specific animal information to be quickly confirmed and utilized by staff.

PROFESSIONAL RELATED EXPERIENCE

Independent Training and Deployment of AI Language Model   2024
- **End-to-End Model Development:** Led comprehensive training and fine-tuning of the LLaMA-3-8B-Instruct model for advanced NLP applications, enhancing model accuracy and capabilities.
- **Performance-Driven Data Integration:** Preprocessed and integrated datasets like Alpaca-GPT4 and CodeAlpaca-20k to boost model adaptability and versatility.
- **Resource-Efficient Fine-Tuning:** Utilized Low-Rank Adaptation (LoRA) to effectively fine-tune the model with minimal computational resources, maximizing efficiency.
- **Optimized Model Size and Speed:** Implemented 4-bit quantization to reduce model size and enhance inference speed, maintaining high accuracy. Launched and run on Huggineface with great performance.
- **Comprehensive Testing and Compliance:** Ensured model reliability and alignment with ethical standards through rigorous testing and validation protocols.

AI Model Engineer   2023 - 2024
COLLEGEBOT.AI, SAN JOSE, CA
- **AI Model Design and Training:** Collaborated on Collegebot.ai, contributing to the design and training of an AI language model tailored to assist college students in accessing academic resources.
- **Web Deployment and Optimization:** Leveraged previous experience to successfully optimize and deploy Collegebot.ai on a web platform, enabling efficient, user-friendly access.
- **Specialized Training for Academic Navigation:** Trained the model to accurately interpret and extract information on university policies, schedules, academic programs, and subject knowledge, ensuring reliable assistance for students.
- **High Impact and User Reach:** Following its launch, Collegebot.ai has garnered over 10,000 active users, helping students access school-related information and resolve academic challenges efficiently.