

Xiao Dan

*Sr. Lead Software Engineer // AI Engineer // Project Manager // Finance
& Healthcare Pioneer*

maria.nechitailo2020@gmail.com | +1 772 249 1169 | Los Angeles, California, United States | XiaoDan

Profile

I am specialized in AI and Web and Mobile app development. I am highly specialized in Web and Mobile app development. I have solid knowledge in these areas and also a deep understanding of the technical side of things. I have the necessary drive, motivation, and energy to see a project through to its completion. I pride myself on completing projects on time.

AREAS OF EXPERTISE

- ✓ I am skilled with Python, C++, Firmware, Node.js, Kotlin, Dart, R, Golang, Ruby and Rails
- ✓ Web App Development [PHP, Django, Flask, ASP.NET, MySQL, HTML5, CSS3, Content Management Systems and PHP frameworks like; CodeIgniter, Laravel, WordPress, Joomla, Magento etc.]
- ✓ Cloud Platforms such as GCP, AWS, AZURE, GIT, Kubernetes, Docker
- ✓ ML Frameworks such as Tensorflow, Keras, Pytorch, Numpy, Nvidia, Pandas, Spark, Opencv, IBM, Terraform, Snowflake, Airflow.
- ✓ iOS App Development (iPhone & iPad) [Objective-C, X-Code, Swift, iOS-SDK]
- ✓ Android App Development (Android Smartphones & Tablets) [Java, Eclipse, Android Studio, Android-SDK]
- ✓ I am highly skilled in React Native, flutter, Ionic.
- ✓ API and Web Services [RESTful APIs, JSON, Node.js]
- ✓ Web designing. [Creative skills, responsive, browser compatible designs, SEO friendly, and user-friendly designs]
- ✓ QA automation [Selenium, Appium, Cucumber, Scraping]
- ✓ Technical Stack. [Computer Vision, Reinforcement Learning, Natural Language Processing, Machine Learning tech implement on Mobile and Web]
- ✓ Database management SQL and NoSQL. (MySQL ,PostgreSQL, MongoDB, DynamoDB, Oracle, SQL Server)

Looking forward to an opportunity to cater to your needs.

★ Warm Regards ★

Education

Bachelor's degree / Computer Science,

University of California, Berkeley

Grade: A++Grade: A++

Activities and societies: Computer Science, Data Science, Artificial Intelligence, Algorithm and Data

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This was the best happy period that I've ever meet

2008-02 – 2012-09

California, United States

Professional Experience

Senior Machine Learning Engineer, AWARE

2019-09 – 2023-01

Bedford, Massachusetts, United States

- Developed and implemented end-to-end machine learning algorithms for image classification, object detection and natural language processing tasks using Python, TensorFlow, PyTorch and Keras.

- Leveraged cloud based platforms such as Google Cloud Platform (GCP), Amazon Web Services (AWS) and Microsoft Azure to deploy ML models
- Utilized deep learning neural networks such as RNNs, CNNs and LSTMs to work on sequential data
- Optimized existing machine learning algorithms and enhanced its accuracy
- Built and maintained scalable data engineering pipelines for model training, deployment and monitoring with Apache Spark
- Analyzed and interpreted data from various sources for model development, such as Hadoop, MongoDB
- Mentoring Developers and review the code and project management.

Full Stack Developer, Celadon

2015-09 – 2019-09 | Illinois, United States

- Developed and maintained an eCommerce website for the company using technologies such as HTML5, CSS3, JavaScript, React, Node.js, and MongoDB.
- Designed efficient REST APIs to link the different components of the application and enforce data integrity.
- Automated unit testing for code quality assurance and error handling.
- Utilized web analytics such as Google Analytics to track user behavior and optimize the user experience.
- Developed scalable back-end architecture to handle large volumes of traffic.
- Optimized website performance across a range of devices and browsers.
- Deployed and maintained cloud applications

Blockchain Developer, Digiteum LLC

2013-08 – 2017-03 | Gdańsk, Poland

- Developed blockchain-based web applications for a financial client, providing an efficient, secure backend for the management of customer accounts.
- Analyzed and tested various blockchain implementations, such as Bitcoin, Ethereum, Hyperledger Fabric, R3 Corda, and Quorum.
- Utilized Node.js, JavaScript, and Solidity to build smart contracts to automate customer payments and invoicing processes.
- Collaborated with engineers and product managers to design and implement decentralized applications that improved customer experience.
- Built end-to-end blockchain solutions to securely store and share sensitive data across multiple nodes.
- Developed identity management systems leveraging cryptographic



Languages

Chinese

C2

English

C1

Poland

B1



Projects

Facial Recognition System at AWARE, Liveness detection, Spoof detection

At AWARE company, I work on facial recognition systems and one of the projects we worked on was providing liveness detection solutions for financial institutions. We used specialized algorithms to detect the faces in real-time and analyzed the features such as angles, lighting, etc. to determine if it is a real face or not.

Also I built firmware to interrupt handlers, memory management and the development of both real-time and non-real-time applications.

Because in this system, real-time is very important requirements.

We also implemented spoof detection algorithms to ensure that the system can identify if there is any attempt to deceive the system. The algorithms involved analyzing images which are similar to the ones being used in the face recognition system and flagging any suspicious activity.

This project was very difficult, but I learned a lot from it and I am proud of it.

Automated Healthcare Diagnosis System, NLP, Reinforcement Learning

I have been involved in the development of multiple automated diagnosis systems for medical applications. This experience has included developing both a medical decision support system and a machine learning-based diagnostic system. For the former, I implemented systems which analyzed patient data and provided helpful insights to clinicians.

This included analyzing lab tests, vital signs, physical exam results, and other pertinent data.

For the latter, I employed various supervised and unsupervised machine learning techniques to develop a diagnostic model which was able to accurately diagnose various medical conditions.

I also worked on incorporating natural language processing algorithms into the system to aid in interpretation of text-based patient reports.

Staking Pool on Eth2, Ruby on Rails, Golang, Node.js

- Setting up the validator client: Before you can begin staking, you need to set up the client software on your device, which will be used to connect to the Ethereum 2.0 network and send attestations about the validity of blocks.
- Depositing ETH: You must then deposit an amount of ETH into the staking pool, which will serve as part of the collateral for the validator.
- Joining the staking pool: After depositing the ETH, you join the staking pool by adding your public key to the list of validators in the pool.

SquareSpace Platform, Django, MERN, HTML/CSS/JS

I have 3+ years of experience in developing and managing websites using Squarespace.

I am familiar with both the front-end and back-end of the Squarespace platform, and I have built several custom templates for a variety of projects.

I have expertise in CSS, HTML, and Javascript and have implemented advanced design elements and customised website elements.

Additionally, I have extensive knowledge in working with plugins, custom forms and galleries, blog integration, eCommerce setup, domain mapping and setting up external domains, and more. I have also managed content updates, on-page SEO, and analytics tracking.