Simon Kebede Darota

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EDUCATION

United Arab Emirates University (UAEU) — Al Ain, Abu Dhabi, UAE
B.Sc. in Computer Science, Minor in Statistics and Data Analytics — *Jan 2020 – Aug 2024*

New York University Abu Dhabi (NYUAD) — Abu Dhabi, UAE
Liberal Arts, Leadership and Public Speaking (Non-degree) — *Aug 2022 – Apr 2023*

EXPERIENCE

Sensia Ventures Group — Remote / Dubai, UAE
Full-Stack Developer — *Sep 2024 – Present*
- Designed and developed an end-to-end Data Analytics Web Platform using Django (DRF), React, and MySQL.
- Integrated RESTful APIs to collect and unify data from platforms including Shiphero, Sublytics, Tiger Tech (call center), and logistics APIs.
- Built real-time analytics dashboards using React (Hooks, Redux Toolkit, Chart.js) to replace manual reporting by data analysts.
- Implemented predictive models using scikit-learn and Prophet to forecast stock levels and anticipate out-of-stock situations.
- Developed AI-powered assistant using OpenAI API to answer business queries about marketing performance, product trends, and segmentation ROI.
- Created inventory management module with alert system, SKU tracking, reorder forecasting, and integration with logistics APIs.
- Deployed application on Contabo cloud infrastructure using Docker containers; integrated Amazon S3 for scalable, secure file storage.

FYI.AI Focus Your Ideas — Dubai, UAE
Software Engineering Intern — *May 2024 – Aug 2024*
- Developed mobile apps using Qt QML frontend, Java backend, and C++ interoperability for native performance.
- Created a Contacts List manager app with device-level permissions and CRUD features.
- Contributed 25+ PRs with 16 merged into production, emphasizing modular design and unit testing.

Mohamed Bin Zayed University of AI (MBZUAI) — Abu Dhabi, UAE
Undergraduate Research Intern — *May 2023 – Jun 2023*
- Developed reinforcement learning models (A2C, TD3, SAC) to optimize smart grid energy distribution.
- Built simulation environments with renewable energy constraints and battery storage models.

NYU Abu Dhabi (NYUAD) — Abu Dhabi, UAE
Visiting Undergraduate Researcher — *Jun 2022 – Aug 2022*
- Implemented and evaluated SLAM algorithms (ORB_SLAM3, DROID SLAM) on EuRoC/TUM-VI datasets.
- Integrated real-time SLAM in Husky Robot using ROS Noetic and simulated with Gazebo + RViz.

PROJECTS

AnxietyBuddy Mental Health App | *React Native, Firebase, Firestore, NoSQL, Expo, i18n* July 2022 – Oct 2024
- Developed cross-platform app with React Native, ensuring consistent UX on iOS and Android through modularized component structure.
- Integrated Cloud Firestore NoSQL database with 5+ nested collections/subcollections to support real-time syncing and offline persistence.
- Designed reusable components and navigation using React Navigation and Hooks for seamless user flow.
- Built multi-language support using i18n for global accessibility.
- Deployed backend services to Firebase and integrated notification services and analytics tracking.
- Secured 100,000 AED sponsorship from MUBADALA after pitching version 1.0 to stakeholders.

Squadpoint | *React.js, Django, MySQL, Tailwind CSS* — Sep 2020 – Apr 2021
- Developed a full-stack web app enabling users to reserve courts, challenge opponents, and manage team matches for racket sports.

- Designed responsive UI using Tailwind CSS and implemented dynamic routing and authentication with Firebase.
- Built Django backend with MySQL for court availability, match scheduling, and user profiles; integrated with real-time chat and notification system.
- Implemented court availability engine with Redis caching and optimized MySQL queries to support 10,000+ concurrent users.

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), Java, C++, SQL, Bash
Web: Django, Django REST Framework, React.js, HTML5, CSS3, Tailwind, Next.js
Data: MySQL, PostgreSQL, Firebase, MongoDB, Pandas, NumPy, scikit-learn, Prophet
DevOps: Docker, Nginx, GitHub Actions, AWS EC2/S3, Linux (Ubuntu)
Tools: VS Code, Qt Creator, Net Beans, Terminus, Jupyter, Git, Figma