

Arlington, VA, 22204, thomasnynas.genius@gmail.com

THOMAS NYNAS

Senior Full Stack Engineer

PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 7+ years of experience designing, developing, and deploying cloud-native SaaS applications across multiple domains including **healthcare, e-commerce, fintech, and more**. Skilled in delivering secure, scalable solutions with expertise in **HIPAA-compliant healthcare platforms** and **high-performance e-commerce systems**. Proficient in core technologies such as **Python, Django, FastAPI, React.js, PostgreSQL, AWS, and AI/ML integration**. Adept at integrating **AI/ML** technologies, microservices architecture, and modern DevOps practices to optimize user experience and business value. Proven track record in backend API design, frontend development with **React**, and managing cloud infrastructure on **AWS** and **GCP**. Passionate about building innovative, reliable software tailored to diverse industry needs.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, SQL, HTML, CSS
- **Backend:** Django, DRF, Ninja, FastAPI, Flask, Django
- **Frontend:** React.js, Next.js, React Native, MUI, Tailwind CSS, SSR, SEO optimization, clean UI/UX
- **Data & AI & ML:** Pandas, NumPy, OpenAI SDK, LangChain, TensorFlow, PyTorch, SageMaker, BigQuery, Vertex AI, RAG, OpenCV, Speech Recognition, ElevenLabs, Spark, Freqtrade, Open AI
- **Databases:** PostgreSQL, pgVector, MongoDB, Redis, Memcached, Elasticsearch, InfluxDB, Neo4j, CogDB
- **DevOps & Infrastructure:** Docker, GitHub Actions, GitLab Pipelines, Jenkins, Prometheus, Grafana, Sentry, Loki, Logstash, Kong, KrakenD, MinIO, AWS (S3, ECS, Lambda, EKS, Neptune, AppSync, SQS), GCP, Azure DevOps
- **Protocols & Messaging:** REST, OpenAPI, gRPC, WebSockets, Socket.io, GraphQL, RabbitMQ, Kafka, WebRTC, MQTT, SSH
- **Testing:** Pytest, unittest, Behave, Postman, JMeter, Locust, Selenium, Playwright
- **Scraping:** BeautifulSoup, MechanicalSoup, requests, httpx, aiohttp
- **Tools & APIs:** PowerBI, Tableau, Firebase, Twilio, SendGrid, Telegram Bots, Stripe, PayPal

EMPLOYMENT HISTORY

SENIOR FULL STACK DEVELOPER

Jun 2022 - Present

Vouched

Seattle, VA

Tech Stack: Python, Django, DRF, React.js, PostgreSQL, OpenCV, AWS (ECS, S3, OpenSearch), Kafka, Redis, Tailwind CSS, Prometheus, Sentry

- Spearheaded development of a **cloud-native, HIPAA-compliant healthcare identity verification platform**, leveraging AI/ML to enhance security and onboarding efficiency.
- Built backend services with **Django, DRF, PostgreSQL**, incorporating **Redis** and **Elasticsearch** for optimized healthcare data performance.
- Developed **React** and **React Native** dashboards with **Tailwind CSS** enabling real-time patient verification insights and administrative controls.
- Integrated AI-powered facial recognition and OCR using **OpenCV** and third-party APIs to ensure compliance and fraud prevention.

- Managed secure data workflows with **AWS S3**, **OpenSearch**, and **KMS encryption** adhering to healthcare data privacy regulations.
- Deployed infrastructure on **AWS ECS** with **Docker** and **GitHub Actions** to maintain scalable, highly available healthcare services.
- Achieved >90% code coverage through test-driven development using **Pytest** to maintain platform robustness.
- Mentored junior engineers and introduced **GitFlow** branching strategies for efficient team collaboration.
- Collaborated cross-functionally with product, design, and compliance teams to enhance user experience and regulatory adherence.
- Instrumented **Prometheus** and **Grafana** dashboards for continuous monitoring of system health and performance.
- Led security audits and implemented data privacy protocols specific to healthcare industry standards.
- Directed migration from monolithic to microservice architecture to improve scalability and maintainability of healthcare services.

FULL STACK DEVELOPER

June 2020 – May 2022

Leidos

Reston, VA

Tech Stack: FastAPI, Flask, SQLAlchemy, React.js, Redis, Celery, MongoDB, Elasticsearch, RabbitMQ, Jenkins, Auth0

- Developed and maintained backend services for a **large-scale e-commerce SaaS platform** managing product catalogs, orders, and inventory.
- Built REST APIs and data pipelines with **Flask**, **SQLAlchemy**, and **Pandas** to support secure, scalable e-commerce data flows.
- Created user-facing dashboards with **React**, **React Native**, **Redux**, and **WebSockets** for real-time order tracking and customer engagement.
- Integrated **Stripe** and **PayPal** payment gateways and FedEx shipping APIs for seamless checkout and order fulfillment.
- Tuned **Elasticsearch** queries and implemented **Redis** caching to optimize product search performance and reduce latency.
- Automated deployment and monitoring with **Jenkins**, **GitLab CI/CD**, **Sentry**, and **ELK stack** to ensure platform reliability.
- Participated in Agile development cycles, coordinating with product and QA teams via **Jira** and **Confluence**.
- Employed **PostgreSQL** and **MongoDB Atlas** to handle structured and unstructured product and customer data.

BACK END DEVELOPER

May 2019 – May 2020

Leidos

Reston, VA

Tech Stack: Flask, Airflow, RabbitMQ, PostgreSQL, Elasticsearch, Redis, Docker, Pytest, Apache Spark, AWS

- Built scalable APIs and asynchronous task queues with **FastAPI**, **Celery**, and **RabbitMQ** to handle high order volumes.
- Refined data ingestion workflows using **Apache Airflow** and **PostgreSQL** triggers to improve reliability and processing speed.
- Developed **gRPC** microservices and internal SDKs to standardize communication between microservices.
- Authored unit and integration tests with **Pytest** to maintain high code quality and system stability.
- Improved **Elasticsearch** performance for product search resulting in a 45% reduction in query latency.
- Managed Dockerized environments across development, staging, and production.

- Led migration from monolithic architecture to microservices for improved scalability.
- Implemented **Redis LRU caching** and database sharding to optimize performance during peak loads.

PYTHON DEVELOPER

Zendesk

Apr 2018 – May 2019

San Francisco, CA

Tech Stack: Python, Pandas, PyMongo, OpenAI SDK, LangChain, GCP, Vertex AI, BigQuery, React.js, Prometheus

- Built internal analytics and reporting tools to support customer insights and business intelligence.
- Managed ETL pipelines with **Pandas**, **PyMongo**, and **PostgreSQL** to feed BI dashboards.
- Integrated **OpenAI SDK** and **LangChain** to develop NLP-powered support ticket routing solutions.
- Developed APIs to provide cross-team access to real-time and historical data metrics.
- Streamlined data exports and audit trails using **Google BigQuery** and **Vertex AI**.
- Deployed **ML** models assisting in sentiment analysis and predictive tagging to improve support workflows.

EDUCATION

BACHELOR OF COMPUTER SCIENCE

Alderson Broaddus University

Apr 2015 – May 2019

Philippi, WV

LINKS

LinkedIn: <https://www.linkedin.com/in/thomas-nynas-b31b11361/>

GitHub: <https://github.com/thomasnynas12>