

GEORGIOS KATSIKIS

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HEALTHCARE TECHNOLOGY & SCALABLE WEB APPLICATIONS

Full-stack developer with a clinical social work background, specializing in healthcare technology, data interoperability, and secure web applications. Experienced in building systems that bridge clinical workflows and modern software—including HL7 v2 and FHIR integration—to improve patient data exchange and healthcare outcomes. Driven to create scalable, compliant solutions that support health, wellness, and meaningful user engagement.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript

Frameworks & Libraries: Django, Flask, FastAPI, React.js, Pandas

Databases: PostgreSQL, Redis

Cloud & DevOps: AWS (EC2, RDS, S3), CI/CD, GitHub Actions, Vagrant, Ansible, Docker

APIs & Integration: RESTful APIs, XML, HL7 v2, FHIR

Security & Tools: Hashicorp Vault, JWT, Role-Based Access Control (RBAC)

Methodologies: Agile, Kanban, Unit Testing, MVC Architecture

PROFESSIONAL EXPERIENCE

FULL-STACK DEVELOPER | INDEMAND

Remote | September 2022 – October 2025

- Optimized backend performance and facilitated scalability for high-traffic media applications by developing RESTful APIs in Python/Django, integrating metadata transformation and video transcoding systems.
- Increased system efficiency by optimizing PostgreSQL and Redis database schemas, decreasing query execution times by 35% and improving application performance.
- Enhanced application security by integrating Hashicorp Vault for secrets management and collaborating with cross-functional teams to develop private networking among applications.
- Improved search functionality by engineering responsive user interfaces in React.js and TypeScript, enabling seamless data retrieval with XML-based queries to Vidispine service.
- Strengthened development processes by leveraging Agile methodologies (Kanban) to enable effective cross-functional collaboration across engineering teams.

FULL-STACK DEVELOPER (Contract) | Mercury Marketing LLC

Remote | November 2025 – February 2026

- Built a scalable marketing analytics platform, streamlining multi-channel campaign management across web, email, print, and social media for 4 client businesses.
- Leveraged Pandas for Excel parsing and data transformation, processing thousands of advertising data records to generate actionable campaign insights and reporting.
- Developed role-based access control (RBAC) system ensuring secure data isolation per client while maintaining visibility for parent companies, enhancing data security and compliance.
- Created real-time data visualization dashboards with Recharts, improving client insights into marketing campaign performance and business trends.
- Implemented backend architecture using Flask, deployed via Railway, and configured DNS/routing through Cloudflare, optimizing network security and system reliability.
- Improved efficiency by automating deployment workflows, reducing manual configurations through CI/CD integration and infrastructure as code.

FULL-STACK DEVELOPER (Contract) | Maple Cleaners

Westport, CT | May 2022 – September 2022

- Designed and developed a responsive React-Flask application with full CRUD functionality to augment operational efficiency for business processes.
- Secured user authentication with JWT, ensuring customer and administrative access was properly segmented for data protection and security compliance.
- Facilitated business growth by conducting direct client consultations to identify core functionality needs and adjusting development timelines and features accordingly.

TECHNICAL ASSISTANT (Contract) | Bridgeport Film Fest

Remote | June 2022 – July 2022

- Supported digital operations and streamlined execution of online events by troubleshooting website functionality and platform stability.
 - Enhanced content accessibility by assisting in platform updates using HTML and problem-solving strategies to optimize user interactions.
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PROJECTS

HL7 Converter

- Developed a stateless FastAPI application that converts HL7 v2 messages to FHIR-compliant JSON, targeting healthcare interoperability and standardized patient data exchange between clinical systems.

Mindful Companion App

- Built a full-stack mental health journaling application (Django REST Framework, React TypeScript) integrating AI-powered empathetic responses and therapeutic resource recommendations, with secure authentication, CI/CD via GitHub Actions, and AWS deployment (EC2, RDS, S3).
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EDUCATION

Master of Social Work

Sacred Heart University | Fairfield, CT

Bachelor of Science in Psychology | Bachelor of Arts in English

University of Connecticut | Storrs, CT

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

Software Engineering Immersive Program | General Assembly | Remote

- 450+ hour intensive full-stack development program focused on object-oriented programming, MVC frameworks, data modeling, and product development fundamentals.

Google Data Analytics Professional Certificate | Coursera | Remote

Backend Development Path - Python | Boot.dev | Remote