Carl Scozzari

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Innovative Full-Stack Software Developer with a proven track record of delivering scalable, high-performance solutions that drive business impact and enhance user experiences. Proficient in Java, Python, JavaScript, React, and Docker, with expertise in CI/CD pipelines, backend API development, and optimizing workflows. Committed to creating user-focused, innovative solutions that balance technical rigor with scalability and long-term success.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript, Swift, Kotlin, TypeScript, HTML, CSS
- **Frameworks:** Spring, Javafx, Flask, Django, Vite, Vue, Webpack, React, Angular, Node, Bootstrap, Tailwind
- **Databases:** Postgres, MYSQL, Oracle, MongoDB
- **Cloud & Tools:** Git, GitHub, Docker, Azure, AWS, Apache Airflow, CI/CD pipelines

PROFESSIONAL EXPERIENCE

Full Stack Applications Developer   January 2023 - Present
University of Michigan, Ann Arbor, MI

- Designed, developed, and deployed full-stack Flask Python web applications with dynamic, user-focused frontends built using modern JavaScript, HTML, and CSS, ensuring seamless user experiences tailored to clinical and analytic workflows.
- Built and maintained high-scale distributed systems with robust error handling and secure data access to support critical internal processes.
- Improved system performance by identifying and resolving bottlenecks, optimizing database interactions, and implementing scalable architectures.
- Utilize Docker, AWS (EC2, S3), and SQL to build resilient services, emphasizing operational continuity and disaster recovery.
- Integrated with RESTful APIs and microservice architectures to ensure smooth communication between frontend and backend systems.
- Applied responsive design principles and optimized frontend performance to deliver mobile-first, high-performing web applications.
- Championed best practices by documenting systems thoroughly, conducting code reviews, and fostering a collaborative development environment focused on code quality and scalability.

Software Developer Instructor   September 2021 - May 2023
Nucamp Coding Bootcamp, Carlsbad, CA

- Delivered in-depth instruction in Python, JavaScript, React, and algorithms, empowering students to develop scalable, secure applications and excel in technical roles.
- Mentored students in designing and deploying fault-tolerant CRUD applications on cloud platforms like AWS and GCP, emphasizing best practices, robust debugging, and real-world scenarios.

- Simplified complex concepts such as distributed systems, backend architecture, and scalable solutions, fostering critical problem-solving skills and technical confidence.
- Supported students' career transitions by guiding the creation of portfolio-ready projects and coaching on scalable software design, ensuring alignment with industry standards.

Software Developer   March 2021 - August 2022
GeoNexus Technologies, Ann Arbor, MI

- Developed and deployed production-grade software using Core Java and Spring Framework, prioritizing performance optimization and scalability for mission-critical applications.
- Architected and maintained high-availability online services, seamlessly integrating geospatial data into enterprise-grade systems to support decision-making and operational efficiency.
- Engineered and optimized database connectors for geospatial applications, leveraging Oracle and SQL to ensure robust data integration and efficient queries.
- Conducted thorough code reviews, implemented refactoring strategies, and introduced best practices to enhance system reliability and maintainability.
- Delivered comprehensive end-to-end solutions for servlets, utilizing Apache Tomcat for deployment and implementing JSON and XML for efficient data exchange and processing.

Full Stack/Mobile Developer   February 2020 - January 2021
Larky, Ann Arbor, MI

- Developed on responsive web, Android, and iOS applications, integrating dynamic features and seamless user interfaces using React, Node.js, Typescript, Swift, and MySQL as the backend database.
- Worked on a microservice-based full-stack Flask Python web applications, enabling modular, scalable, and maintainable solutions tailored to business workflows and user needs.
- Built and maintained distributed systems, implementing fault-tolerant architecture to ensure high availability and reliable performance.
- Developed a geographical ping feature, enabling targeted notifications to users within a specified radius, enhancing location-based engagement and usability.
- Collaborated closely with stakeholders, translating business requirements into functional solutions and delivering results through agile development cycles.
- Streamlined the app submission process for the Google Play Store and Apple App Store, ensuring full compliance and achieving a 100% approval rate with no rejections.

EDUCATION

Grand Circus Java Bootcamp, Detroit, MI   January 2019 – March 2019
Macomb Community College, Warren, MI   January 2009 – May 2014
Associates Degree: Media and Communications Arts: 3D Animation