

Ernie Crews

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PROFESSIONAL PROFILE

Versatile Full Stack Developer with over four years of exposure to software development and system design across diverse environments. Skilled in crafting scalable web applications using modern technologies such as React, JavaScript, HTML, CSS, and SQL. Experienced in both frontend and backend development, with a strong foundation in cloud services (AWS, Azure), CI/CD pipelines, and database management. Known for technical versatility, applying design principles like SOLID and leveraging patterns such as Repository and Dependency Injection to deliver clean, maintainable solutions. Adept in Agile and SCRUM teams, with a strong commitment to building user-focused systems that solve real-world business problems.

INFORMATION TECHNOLOGY COMPETENCIES

Languages & Scripting: JavaScript, TypeScript, C++, C#, HTML5, CSS, SQL, PHP

Frameworks & Libraries: React, React Native, Node.js, Express.js, Bootstrap, jQuery

Databases: SQL Server, MySQL

Cloud & DevOps: AWS, Azure, CI/CD Pipelines, GitHub Actions, AWS CodeCommit, Azure Repos

Tools & Platforms: Visual Studio, VS Code, Firebase, Figma, WordPress, Shopify, Duda

Environments: Agile, SCRUM, Remote Work

Other Skills: UX/UI design principles, MVC architecture, RESTful API development, Version Control (Git, CLI), Responsive Web Design

CERTIFICATIONS

- Azure Certified Developer - Associate
- AWS Certified Developer – Associate
- ITIL Foundation - AXELOS
- AI Optimization Developer - WGU
- Java Developer - WGU
- Linux Essentials 010 – Linux Professional Institute

PROFESSIONAL EXPERIENCE

Software Engineer / Software Developer - *cgi.com* | Fairfax, VA

June 2024 - present

Ensure the successful operation of scalable web and backend systems, translating complex business requirements into performant applications using .NET, Java, and cloud-native solutions.

- Completed ETL Tasks leveraging AWS services to streamline data workflows and ensure system integration.
- Created and implemented SQL Server data models to enhance cross—system data accessibility and storage efficiency.
- Applied SOLID and DRY principles with design patterns such as Repository and Dependency Injection for clean maintainable codebases.
- Built full-stack applications using .NET (C#, MVC), Javascript, jQuery, Bootstrap, and SQL Server.
- Developed and maintained CI/CD pipelines using GitHub, AWS CodeCommit, and Azure Repos for automated deployment.
- Contributed to code quality through peer reviews and internal linting tools.
- Completed 100+ hours of technical training through CGI to expand full-stack and professional skill sets.

Developer - *CloudEden* | Atlanta, GA

March 2020 – March 2025

Designed and built interactive, client-tailored websites using modern platforms and web technologies.

- Created responsive, high-performance websites using Duda, Shopify, and Wordpress, integrating SQL, PHP, Javascript, HTML, CSS, and React.
- Streamlined development workflows using CLI tools and custom scripts.
- Enhanced UX/UI through layout optimization, improved user flows, and responsive design implementation.
- Improved page speed and performance metrics through backend and frontend optimizations, improving load times and user experience.

EDUCATION

Bachelor of Science, Computer Science

June 2025

Western Governors University | Salt Lake City, UT

- Comprehensive curriculum in programming, algorithms, software engineering, systems architecture, and data structures
- Courses included project management, artificial intelligence, cloud foundations, back-end development, and cybersecurity
- Hands-on experience with Java, Python, SQL, and C++; applied problem-solving with discrete math and data modeling
- Emphasis on scalable system design, object-oriented programming, and AI/ML optimization techniques

Software Engineer Training

Completed: February 2024

PerScholas | Remote

- Full-time, immersive full-stack development program.
- Frontend: HTML, CSS, JavaScript, TypeScript, React
- Backend: Node.js, Express.js
- Practiced Agile and SCRUM workflows, CI/CD pipeline management, and collaborative development.

Portfolio

[Portfolio Link](#)

Selected Projects

- Labyrinth Sprint – Developed a real-time maze game using C++, WebSocket++, and a React Native frontend. Integrated player movement, WebSocket-based game state updates, and AI opponent logic.
- USOIL Trading Bot – Designed and implemented a machine learning model in Python to predict oil price movements. Used time series forecasting, scikit-learn, and backtesting to evaluate strategy performance.
- Portfolio Website – Built a personal developer portfolio using React and Tailwind CSS, showcasing technical projects, skills, and deployed on Railway.