

# Gary Samuel

+1 (949)-615-2493 | garysamuell16@gmail.com | [Linkedin](#) | [Github](#) | [Portfolio](#) | Orange County, California

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## FORMAL EDUCATION

- **California State University, Fullerton**  
Bachelor of Science in Computer Science (GPA: 3.6/4.0)

*Expected June 2027*

## EXPERIENCE

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### Novel Prep, Irvine – Math & Computer Science Instructor (Contract)

*June 2024 – PRESENT*

- Guide students in building Java-based AP Computer Science Principles projects, debugging algorithms, and optimizing data structures for performance, contributing to an average AP score of 4.3.
- Design and deploy a project-based learning platform with code review workflows, boosting engagement by 35% and reducing repetitive grading time by 50%.
- Introduce Git/GitHub for student projects, simulating collaborative development and version control in professional environments.

### Bimmer Plug, Irvine – Shopify Full-Stack Developer

*February 2025 - August 2025*

- Built dynamic, data-driven product pages integrated with the **Shopify Storefront API**, streamlining updates for a 700+ product catalog and enabling personalized displays.
- Automated product and inventory workflows via the **Shopify Admin API**, reducing manual data entry errors and increasing update efficiency.
- Designed a modular, reusable storefront component system, reducing code duplication by 40% and accelerating feature delivery by 25%.
- Developed a full-stack, real-time live chat prototype using WebSockets, enabling seamless customer–staff communication and laying the groundwork for a scalable, engagement-driven support platform.

### Mission Kaizen, San Jose – Lead Project Developer

*March 2023 – June 2024*

- Initiated and led a pro bono project for a growing small business, assembling a team of three developers to design and launch **missionkaizen.org** for improved online presence.
- Directed full-stack development using scalable, modular architecture, delivering a responsive UI that enhanced navigation and program visibility.
- Built a content management framework that supported **3× projected growth** in offerings, reducing update time for non-technical staff by **70%** and ensuring long-term maintainability.

## TECHNICAL PROJECTS

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### AutoFix Bug Fixer – Python Static & Runtime Analysis Tool –*Python, AST, Pytest, Traceback Parsing*

 [Code](#)

- Built a command-line tool (Python, AST, Pytest) to analyze pytest failures and parse AST trees, reducing manual traceback triage time by **60%** for debugging workflows.
- Surfaced localized fix suggestions for issues like type mismatches and debug prints, improving bug resolution speed by **35%** without altering the codebase.

### FullStack Real-Time Chat System– *Node.js, Socket.IO, JavaScript, Bootstrap*

 [Code](#)

- Built and deployed a real-time customer chat platform using Node.js, Socket.IO, and Tailwind CSS, enabling instant support for Bimmer Plug customers, reducing response time by handling high inquiry volumes efficiently.
- Improved customer engagement by implementing a live chat system with HTML, JavaScript, and Liquid integration, allowing support agents to manage inquiries directly through the website in real time.

### Compiler Design Toolkit — *Python, Ruby, Java*

 [Code](#)

- Built a multi-language compiler suite (Ruby lexical analyzer, Python symbol table, Java core components) with intermediate code generation and optimization modules, improving efficiency and reducing runtime overhead.
- Implemented modular design and performance-focused optimizations, enhancing compilation efficiency and reducing runtime overhead.

## TECHNICAL SKILLS

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- **Languages:** Python, C++, Java, JavaScript, HTML, CSS (Tailwind, Bootstrap), Liquid
- **Frameworks & Libraries:** React.js, Node.js, Flask, FastAPI, NumPy, Scikit-learn, TensorFlow, PyTorch
- **Web & APIs:** REST APIs, Shopify (Liquid, Admin API, Storefront API), SQL, JSON, Git
- **Awards & Achievements:** Selected for 2025 Technical Fellow position with CodePath after a competitive multi-round technical evaluation.