

# Michael Nugent

Software Engineer

## Contact

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**GitHub**

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## Summary

BS, Computer Science holder with [portfolio](#) of high-quality academic projects has skills in software engineering, web development, and AI, and possesses 10+ years work experience.

## Education

**Bachelors of Science, Computer Science**, California State University, Fresno. *magna cum laude* (3.7 GPA)

## Academic Projects

Web Development – “Gomoku”

- Used LAMP stack, HTML, CSS, JavaScript, PHP, and MySQL to implement a local front-end client and back-end server to achieve database CRUD operations: user registration and login, game victory record updates and fetches.
- Used object-oriented programming logic to enable complex game play.
- After project completion, updated project to a single-page application with a Model-View-Controller architecture that uses the React framework, and Google Firebase's NoSQL Firestore database.

Software Engineering – “RoadMap”

- As part of an Agile team, designed and built an academic guidance web application for students through the MERN (MongoDB, Express, React, and Node) stack.
- Established system requirements and implemented unit and integration tests through the Jest framework.
- Created UML class, sequence, and use-case diagrams.
- Practiced SOLID principles to achieve code readability and maintainability.

Additional Project Topics: AI, State Space Search, Heuristics, Optimality, Evolutionary Algorithms, Problem Specific Method, Concurrency (Threads), Networking, and Sockets.

[View Portfolio](#)

## Skills

- Web Development: LAMP, (Linux, Apache, PHP, MySQL), MERN, (MongoDB, Express, React, Node), Full Stack, JavaScript, HTML, CSS, NoSQL, REST, CRUD.
- Software Engineering: C, C++, Cohesion/Coupling, SOLID Principles, Testing, UML Diagrams and Architectures.
- AI: State Space Search, Heuristics, Optimality, Evolutionary Algorithms, Adversarial Search
- Soft: Strong Work Ethic, Teamwork, Communication, Problem-Solving, Critical/Creative Thinking, Dependability and Quick Learning.

## Work Experience

**Long Distance Truck Driver**, Prime, Inc., Springfield, MO 2017 – 2018

- Met appointments, efficiently managed fuel expenditures and successfully complied with government time regulations through rigorous logistics.

**Background Actor**, Central Casting, Burbank, CA 2014 – 2016

- Worked as a team with Second Assistant Directors and other actors to achieve realistic portrayals of atmosphere characters for film and television projects.

**Cashier**, Starplex Cinemas, Irvine, CA 2013 – 2014

**Student Technician**, California State University, Fresno, Fresno, CA 2011 – 2012

- Assisted faculty, staff members and students with computer-related tasks through product research, skills development and feature testing.