

# Tyler F.

[contact@tylerfortune.com](mailto:contact@tylerfortune.com) | [github.com/TylerFortune](https://github.com/TylerFortune) | [linkedin.com/in/tyler-fortune](https://linkedin.com/in/tyler-fortune)

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North Central College, Naperville, IL  
Bachelor of Arts in Computer Science

**Relevant Courses:** Operating Systems, Object-Oriented Programming, Data Structures and Algorithms, Machine Learning, Assembly Language, Discrete Mathematics, OO Software Development, Data Mining, Web Applications.

**Certifications:** Procore Certified Project Management

## TECHNICAL PROJECTS

**Full Stack Portfolio:** [tylerfortune.com](https://tylerfortune.com) | **Independent**

**DATES UPON REQUEST**

- Architected a serverless Node.js and Express backend on Firebase to power a dynamic CMS, replacing a static codebase and enabling real-time content updates via a custom Admin Dashboard.
- Engineered a production-grade CI/CD pipeline (GitHub Actions) that automated 100% security audits, unit testing (Jest), and deployments, reducing manual overhead and ensuring code integrity across environments.
- Implemented Cloud Firestore for scalable NoSQL data storage and integrated Three.js for 3D visuals.

**Coursework | North Central College**

**DATES UPON REQUEST**

- **Linux Process Manager:** Built a C-based system utility to monitor OS tasks, managing operating system kernel-level tasks, scheduling, and system calls.
- **Concurrency & Logic:** Resolved complex race conditions by implementing mutex locks and semaphores.
- **Strategic Game Engineering:** Engineered a real-time multiplayer backend using Node.js, Express, and Websockets for game state synchronization | Python-based Connect-4 agent utilizing the minimax algorithm
- **Neural Network Training:** Developed and trained predictive models using PyTorch and Tensorflow.

## WORK EXPERIENCE

**Project Manager Intern**

**DATES UPON REQUEST**

B&A Construction, Chicago, IL

- Monitored and maintained the operational integrity of critical infrastructure systems, including data vaults, utility vaults (ComEd), sub pumps, and fire alarm systems, ensuring continuous functionality.
- Collaborated extensively with diverse technical and regulatory stakeholders, including Siemens technicians, AT&T, Helm, and State Officials, to facilitate seamless project integration and compliance.
- Identified missing site data in preconstruction for the Northwestern University Jacobs Center.
- Aided owner representatives' needs/preferences to ensure site safety standards and customer satisfaction.
- Overseen and managed multiple high-value projects with a total combined estimated worth of \$200 million, demonstrating strong organizational and resource allocation skills.

**Project Assistant**

**DATES UPON REQUEST**

Department of Operations at North Central College, Naperville, IL

- Developed and constructed a comprehensive Classroom Characteristics Binder, serving as a vital technical resource for faculty to efficiently navigate and utilize classroom settings and information.
- Leveraged Bluebeam software to modify complex campus blueprints, improving doc access for faculty.
- Resolved critical on-campus operational issues by presenting data-backed solutions and managing resource allocation within established budgetary constraints.

## LEADERSHIP

**President, Dev 131 | North Central College**

**DATES UPON REQUEST**

- **Lead Presenter | Rall Symposium Honors Event:** Directed a multi-disciplinary undergraduate research team in the development of an autonomous Jetson Nano robot, overseeing the integration of single-camera depth perception (triangulation) and license plate recognition (CNN)(LPR)(ANPR).
- Orchestrated technical workshops and networking events with guest speakers while managing budget allocation
- Administered organization-wide GitHub and Discord environments to streamline collaboration (50+ members)
- Represented the student technical body on the President's Student Board to advocate for student needs.

**Cardinal First Liaison | North Central College**

**DATES UPON REQUEST**

- Presented crucial learning materials for first-generation students pursuing a computer science or engineering degree. This event is held semesterly and orchestrated with a department advisor.

## SKILLS+

- Software & OS: Linux (Debian), Git (actions), AWS, Firebase, Bluebeam, Microsoft Office, Adobe, Procore.
- Languages & Frameworks: Python (PyTorch, Pandas), Java, JavaScript (Node.js), C, C++, ASP.NET
- Systems & Structure: CI/CD Workflows, REST APIs, WebSockets, Bash, Process Management, Arduino