

# Tyler Bennett

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## SUMMARY

Software Engineer with over two years of experience developing high-performance applications in fast-paced production environments. A strong foundation in C++ and C# enables effective contributions across multi-threaded server-client architectures. Proven ability to own critical projects, from initial design through implementation and ongoing support, ensures robust system performance. Experienced collaborating with diverse teams including traders and analysts, translating business needs into technical solutions. Skilled in diagnosing complex system issues, ensuring operational excellence while optimizing application performance and reliability.

## EXPERIENCE

### Software Engineer

Tech Innovations LLC 📅 January 2025 - August 2026 📍 Remote

Key responsibilities included designing, implementing, and maintaining high-performance software applications within financial trading systems. Took ownership of core applications, driving development roadmaps for scalability and long-term stability. Worked across all phases of the software lifecycle, participating in design discussions and providing reliable production support.

- Collaborated closely with cross-functional teams including traders and quantitative researchers.
- Translated complex business requirements into scalable and efficient technical solutions.
- Diagnosed and resolved intricate system issues involving networking and distributed systems.
- Continually enhanced application performance by utilizing advanced debugging tools.

### Junior Software Developer

CodeCraft Corp 📅 June 2023 - December 2024 📍 Chicago, IL

Primarily focused on developing components of trading applications, working extensively with C++ and C#. Contributed to architectural improvements and ensured code quality through robust testing practices. Engaged in troubleshooting efforts to optimize performance and minimize latency, aligning successfully with modern engineering standards.

- Designed modules meeting extensive trading functionality while supporting pre-existing frameworks.
- Utilized Git effectively for version control, enhancing team collaboration and project efficiency.
- Participated actively in agile ceremonies, focusing on continuous improvement strategies.
- Deployed enhancements that contributed significantly to user satisfaction metrics.

### Intern Software Developer

NextGen Solutions Inc. 📅 June 2022 - May 2023 📍 Chicago, IL

Engaged in various stages of software development for a fintech product aimed at improving trading outcomes. Focused heavily on performance optimization tasks while getting hands-on exposure to large-scale development environments.

- Assisted senior developers with coding and conducted unit testing to ensure quality deliverables.
- Learned to navigate complex design patterns and apply them effectively in real-world scenarios.
- Co-developed documentation that facilitated knowledge sharing among team members.
- Enhanced personal technical skills, particularly in debugging and performance tuning.

## PROJECTS

### High-Frequency Trading Application 📅 August 2024

Led a team to develop an internal high-frequency trading system that analyzed market data and executed trades within milliseconds. Implemented key optimizations resulting in improved execution latency.

### Scalable Payments Processing System 📅 December 2023

Contributed significantly to the development of a payments processing system designed to handle thousands of transactions per second, ensuring security and compliance across global markets.

## LEADERSHIP & AWARDS

- Recognized as 'Employee of the Quarter' at Tech Innovations LLC for outstanding performance in leading a critical project.
- Received 'Best Innovation Award' during the University Hackathon for creating a trading analytics tool.

## EDUCATION

### Master's Degree in Computer Science

University of Chicago 🎓 GPA: 3.8 📅 2025 📍 Chicago, IL

**Coursework:** *Software Development, Algorithms, Distributed Systems, Database Management*

## Bachelor's Degree in Computer Science

University of Chicago 🎓 GPA: 3.7 📅 2023 📍 Chicago, IL

**Coursework:** *Data Structures, Networking, Software Engineering, Cloud Computing*

## CERTIFICATIONS

- Certified ScrumMaster (CSM) 📅 2025
- AWS Certified Solutions Architect 📅 2026

## TECHNICAL SKILLS

- **Version Control:** Git
- **Operating Systems:** Windows, Linux
- **Programming Languages:** C++, C#
- **Scripting Languages:** Bash, PowerShell
- **Debugging Tools:** GDB, Visual Studio Profiler
- **Development Methodologies:** Agile, Scrum
- **Database Management:** SQL, NoSQL
- **Cloud Services:** AWS, Azure
- **Frameworks:** .NET, Boost
- **Application Servers:** Apache, NGINX

## SKILLS

- |                      |              |                       |                        |
|----------------------|--------------|-----------------------|------------------------|
| • C++                | • Linux      | • Debugging           | • Collaboration        |
| • C#                 | • Git        | • Distributed Systems | • Financial Technology |
| • Agile Development  | • Networking | • Windows             | • Application Support  |
| • Performance Tuning | • Scripting  | • Problem Solving     | • System Design        |

## PROFESSIONAL AFFILIATIONS

- Member of the IEEE Computer Society, contributing to local tech meetups.
- Active participant in hackathons with a focus on innovative fintech solutions.

## LANGUAGES

- English (Native)
- Spanish (Intermediate)

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST