

## Kim Pampusch

### PROFESSIONAL SUMMARY

Full-Stack Software Engineer with 4+ years architecting scalable, HIPAA-compliant enterprise systems. Focused on delivering high-availability software that sustains clinical operations and high-volume data integrity. A proactive technical owner bridging complex backend logic with intuitive design to drive features to deployment in distributed, asynchronous environments.

### EXPERIENCE

#### Epic Systems

Rochester, MN

#### Full-Stack Software Engineer

March 2021 - Present

- Engineered and maintained HIPAA-compliant B2B healthcare SaaS solutions serving mission-critical hospital systems with C#, .Net, TypeScript, React, Mumps (NoSQL), and Git.
- Designed and deployed a data-driven algorithmic model for surgery scheduling, reducing patient wait times and increasing operating room utilization for 2M+ procedures monthly - approximately 47% of all surgical volume in the United States.
- Built and launched a real-time patient bed tracking tool that improved efficiency, reduced errors, and streamlined real-time communication for over 500,000 hospital beds per month.
- Led user research and requirements gathering via on-site observation, automating documentation processes to lower nursing overhead and boost day-of-surgery efficiency.

### VOLUNTEERING

#### FIRST Robotics Competition

Roseville, MN

#### Software Development Mentor

August 2017 - June 2021

- Mentored high school students in designing and programming competitive robots using Java and Python, fostering teamwork and engineering problem-solving.
- Developed and led an annual curriculum on software engineering and real-time vision processing techniques, bridging theoretical knowledge with practical engineering challenges.

### PERSONAL PROJECTS - Full portfolio available at [kimpampusch.tech](http://kimpampusch.tech)

#### Online Chat - SQL, AJAX, Javascript, PHP, Database Design

Designed a real-time interactive chat, managing asynchronous state for a seamless user experience.

#### Balancing Robot - Embedded C, Sensors, Electronics, Robotics, I2C

Engineered a low-latency control system in Embedded C, implementing I2C sensor communication to maintain dynamic stability on two parallel wheels.

### EDUCATION

#### Bachelor's of Computer Science - Metropolitan State University - GPA 3.79

August 2021

### TECHNICAL SKILLS

Software Development - C#, .NET Core, Typescript, HTML/CSS, React, Full Stack Development, NoSQL, Visual Studio, Git Version Control, Python, Mumps, Robotics, Vision Processing

Processes - Independent Feature Ownership, Asynchronous Communication, Unit Testing, Structured Dev Workflow, User Interviewing, Code Review