Kim Pampusch

EXPERIENCE

Full-Stack Software Developer

Epic Systems, Rochester, MN

MARCH 2021 - PRESENT

- Built new features and fixed bugs in web applications using C#, Typescript, and React
- Designed and developed a planning tool that manages over 120,000 hospital bed assignments per month
- Partnered with customer executives to guide project direction
- Gathered requirements and led usability discussions with end-users during the design process
- Wrote unit tests and documented changes to instruct advanced testing by QA specialists
- Demoed software to internal and external stakeholders for educational and operational purposes
- Advised R&D personnel in building and operating software to simulate real-world workflows

Software Development Mentor

FIRST Robotics Competition, Roseville, MN

AUGUST 2017 - JUNE 2021

- Mentored high school students in building and controlling competitive robots with Java and Python
- Developed a teaching curriculum each year focused on software engineering and real-time vision processing
- Volunteered at public events to showcase engineering-related educational opportunities in the local community

PERSONAL PROJECTS

Projects outlined at:

https://kimpampusch.tech/?page_id=65

Online Chat — *SQL, AJAX, Javascript, PHP*

Designed and implemented an online chatting application

Inverse Kinematics For A 2D Robotic Arm — *Python, Math*

Explained and demonstrated 2D inverse kinematics

Balancing Robot— *Embedded C, Sensors, Electronics, Robotics, I2C*

Built and programmed a robot that balances on two parallel wheels

Arcade Game — *JavaScript, Game Development*

Developed a video game that ran on a homemade arcade machine

Forklift Robot — *Java, Sensors, Robotics, Autonomous Driving, Git Version Control*

Programmed a robot to lift and stack storage boxes

EDUCATION

BAS, Computer Application Development — Metropolitan State University, Saint Paul, MN

August 2021 — GPA 3.79

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