Thomas Kubik

US Citizen - ability to obtain and maintain a government security clearance

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EDUCATION

University of Illinois at Chicago (UIC) – Chicago, IL
Bachelor of Science in Computer Science - Cum Laude
     Concentration: Software Engineering   GPA: 3.59/4.0   Jan '21 - May '22
Bachelor of Science in Bioengineering
     Concentration: Neural Engineering   GPA: 3.47/4.0   Aug '15 - May '19

Relevant Coursework
- Software Engineering - Utilized software engineering methodologies for software design and development. Some UML experience. Software development lifecycles.
- Software Design, Database Systems, User Interface Design, Computer Algorithms, and Data Structures
- Neural Engineering - Introduction to hybrid neural systems

EXPERIENCE

Research Lab Work – Undergrad lab assistant – University of Illinois at Chicago   Dec '17 – May '18
- Utilized optimization techniques created by the research lab to solve for the pressures in the Circle of Willis, CoW, which is the joining of arteries in the human brain, using patient NOVA data which contains flow rates at different locations in the CoW.

PROJECTS

Senior Design Project – University of Illinois at Chicago   August '17 – May '18
- Designed inline anti-microbial water treatment device implementing innovative proprietary materials for industry.

Computer Science Projects
- Injury based exercise finder - Personal Project - http://tkubik-001-site1.gtempurl.com/
  - Web application to find exercises to stay in shape while avoiding aggravating injuries.
  - Utilizes ASP.NET core for backend, PostgreSQL database, Blazor frontend, and C#.
- Nutrition and Fitness Mobile Application - UIC - Software Engineering 2 course group project
  - Worked in a group of four utilizing Agile methodologies and Scrum/Kanban practices over a semester long group project.
  - A mobile application that lets users track their nutrition information, workouts and get feedback on their progress based on the workout and meal plans.
  - Native android application using Java which utilizes NutritionIX V2 API, and Google FireBase FireStore.
- National Park Reporting server/client application - UIC - Software Engineering 1 course group project
  - Server/Client software project so National Park visitors can report various kinds of incidents around the park for the park employees to receive in real time.
  - Created using Java and JavaFX.

Bioengineering
- Project using EMG electrodes on a human forearm to control a robotic arm after signal strengthening and filtering.
- Prototyped a wearable medical device to alert bystanders of a person being in diabetic coma.
  - Wearable monitored change in heart rate, sweat levels and temperature via sensors in the wearable in contact with fingertips of the wearer.

SKILLS/KNOWLEDGE

Programming Languages – C#, C++, Java, JavaScript, Python, SQL, HTML, CSS, C
Methodologies – Agile methodology, Scrum, Lean, Kanban

Frameworks/Tools – GitHub, MySQL, PostgreSQL, React, Blazor, Next JS, Jira, Visual Studio, Eclipse, Android Studio, basic AWS Cloud knowledge, some embedded programming utilizing Arduino, Junit, software unit testing, Linux OS basics