

# Kapil Regmi

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## EDUCATION

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**Towson University | Towson, MD**

Expected Graduation May 2024

*B.S. - Computer Science, Software Engineering*

*Minor - Mathematics*

- **CS Coursework:** Principles of Computer Organization, Data Structures and Algorithm Analysis, Data Communication and Networking, Software Engineering, Object-Oriented Design and Programming, Operating Systems, Requirement Analysis and Modeling, Software Quality Assurance and Testing, Programming Languages: Design and Implementation, Database Management Systems, Mobile Application Development, Web-based Programming, Software Project Practicum
- **Math Coursework:** Discrete Mathematics, Cryptography, Graph Theory, Linear Algebra, Calculus 3, Statistical Methods

## PROJECTS

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**Community Chat Website** | *Typescript, Postgres, HTML/CSS, AWS, Heroku, Figma, React*

\*In-Progress\*

**Workout Tracker Android App** | *Kotlin, Android Studios, Figma*

\*In-Progress\*

**Mutation Testing Software for Mojo** | *Python, Mojo*

\*In-Progress\*

**Language Processor** | *Python*

Fall 2023

- Developed a language processor for a specified grammar that comprises of three integral components: file reading, lexical analysis, and parsing.
- Implemented efficient file handling for reading source code, a lexical analyzer to tokenize programming constructs, and a top-down, predictive, recursive descent parser.
- Integrated error reporting mechanism to enhance debugging and provide meaningful feedback to users.
- Designed with a focus on modularity, maintainability, and scalability of the language processor codebase.

**FreeCol Improved** | *Java*

Fall 2023

- Enhanced the code quality and functionality of an existing game, FreeCol, through a systematic approach to software quality assurance and testing.
- Effectively identified and resolved issues by employing strategic prioritization methods including software profiling tools and complexity measurements.
- Validated software changes using unit testing, integration testing, and GitLab CI/CD.
- Applied Scrum practices within the team to identify, track, resolve issues, and document changes.

**Language Translation Website** | *Java, JavaScript, CSS, HTML, PHP, MySQL, AWS*

Fall 2022

- Developed an interactive website which allows the user to translate text from one language to another along with providing text-to-speech functionality and currency conversion.
- Implemented a login page with user authentication.
- Designed the frontend interface with a focus on a minimal design while maximizing user functionality.
- Applied agile development approach and Scrum practices within the team.

## SKILLS & TECHNICAL TOOLS

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**Programming:** Java, Python, HTML/CSS, C++, JavaScript, TypeScript, LISP, Kotlin, PHP, Golang, VBA, C, Mojo

**Technologies:** Git, AWS, React, Figma, Postgres, Heroku, MySQL, Subversion, Slack, Trello

**Language:** Fluent in Nepali