PROFILE

Surprising as it may be, I have always admired the coding process. I started creating complex conditionals in Excel for my greenhouse businesses in high school, and since writing

my first 'Hello World' program I knew I would flourish in software development. I discovered how I enjoy thinking through every step, using logic and problem solving skills within a set of guidelines fits my personality well.

ETHAN JOHNSRUD

SOFTWARE DEVELOPER

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TECHNOLOGIES

- ♦ Agile Scrum
- ♦ GitHub
- ♦ Linux
- ♦ React & Hooks
- ♦ JavaScript
- ♦ HTML
- ♦ CSS
- ♦ NodeJS
- ♦ Flutter
- ♦ Dart
- ♦ C++
- ♦ Java & JavaFX
- ♦ Bootstrap
- ♦ Socket.IO
- ♦ Photoshop
- ♦ Illustrator

AWARDS

- ♦ Eagle Rank BSA
- ♦ FIRST Robotics
 State Competitors
- ◆ CS Department Scholarship
- ♦ National Honor Society
- ♦ UMD Dean's List

EXPERIENCE

Concept Environment

[325 Hours]

Fasetto Project: A collaborative place where ideas can be developed and explored. Multiple users are can join different sessions and create a mind tree. Starting with an original idea, users can expand and grow with more detailed concepts. Innovated full networked system of server identifying users in separate rooms, live syncing, and offline data management conflict merging. Integrated into proprietary Gravity OS for device sharing.

- ♦ React JS
- Socket.IO
- ♦ Express

- ♦ HTML
- JavaScript
- ♦ CSS

UMD Alive

[100 Hours]

University Project: Worked as a part of an Agile Scrum Team in implementing user stories for a school club management android application. Conducted daily sprint meetings, GitHub version syncing, and server support. Our team's core features include school Google authentication login, club event postings, and inter club messaging.

- ♦ Agile Scrum
- ♦ GitHub
- ♦ Android Studio
- ♦ Java

What to Eat?

[350 Hours]

Meal Planning through machine learning and cost optimization. All in one application creating menus that fulfill food categories to shopping list with price and serving size tracking. Developed efficient item lookup and references mapping to elevate resource management. Designed complex sorting and value analyzing algorithms to achieve relevant recommendations and user experience.

- ♦ Flutter
- Adobe Illustrator
- ♦ Dart
- ♦ Adobe Photoshop

Pac-Man Game

[150 Hours]

Implemented the classic Pac-Man game incorporating complex conditionals for game modes, difficulties, and command hierocracies. Developed an AI algorithm and that could have multiple instantiations while operating independently. Handled logic exceptions of game play especially in path-finding challenges.

- ♦ C++
- ♦ AI Calculations and Analysis
- ♦ Logic & Syntax Exception Handling

Internship

Software Developer, Fasetto: Oct. 2019 – May 2020

Through this internship experience, I gained valuable insight into the inter-workings of a tech company and the daily duties of software engineers. I became familiar with the development lifecycle, with frequent Q&A testing, software demos, and product sales process. I had the opportunity to work side by side the development team on a daily basis, receiving career guidance and jump starting my skills with full stack development.

EDUCATION

University of Minnesota Duluth

B.S. Computer Science => ABET accredited: CAC

Minor: Business Finance

Security: Encryption && Vulnerabilities | NLP: Machine Learning | Algorithm Optimization Networks: Internet Protocols | Design: Adobe && Design Principles

Development: Object Oriented Design && Agile Scrum