
GitHub: github.com/ncotta | **LinkedIn:** [linkedin.com/in/niklaas-cotta/](https://www.linkedin.com/in/niklaas-cotta/)
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About Me

I am a Software Developer bringing creativity and adaptability to both front and back-end development, with experience in game development/design, cybersecurity, and software engineering.

Education

SEPTEMBER 2019 – JUNE 2022 | UNIVERSITY OF OREGON,

- B.S. in Computer and Information Science, GPA 3.8
- Dean's List (6 terms)
- Developers Club, Vice President || April 2021 – Present
- Women in Computer Science || September 2020 – April 2021

Skills

- **Languages:** Python, C/C++, C#, HTML5/CSS, Kotlin, ML, SQL, JavaScript
- **Tools:** Unity, Bash, MongoDB, Git, Jira
- **Other Skills:** Databases, APIs, Interpreters/Compilers, Web Scraping, Automation

Courses

- | | | |
|---------------------------|---------------------------------------|---------------------|
| • Computer Organization | • Principles of Programming Languages | • Game Programming |
| • Intermediate Algorithms | • Scientific Visualization | • Computer Networks |
| • Operating Systems | | • Computer Security |

Work Experience

STUDENT ANALYST | UNIVERSITY OF OREGON | SEPTEMBER 2021 – PRESENT

- Assisted students, faculty, and staff with a variety of IT issues

INFRASTRUCTURE/OPERATIONS INTERN | CDK GLOBAL | JUNE 2021 – AUGUST 2021 (3 MONTHS)

- Developed several network automation tools using Python in coordination with networks team
- Optimization and automation of ticketing/reporting systems, digital workflow management (ServiceNow)

EMERGENCY DEPARTMENT SCRIBE | ABC SCRIBES | MAY 2017 – JUNE 2018 (1.2 YEARS)

- Assisted physicians by notating documents for insurance purposes (HIPAA), including patient history, physical exam, review of systems, and occasionally medications.

Projects

DESCHUTES AND LADDERS (GAME PROGRAMMING AND DESIGN, C#)

- A Unity 3D game that incorporates puzzle and platformer elements. You are required to get both characters to the end of the level to continue, and each character has a specific skill that can be used

SECURERFID (ANDROID DEV AND SECURITY, KOTLIN)

- An Android application using NFC technology that acts as a go-between for your phone and credit cards with RFID capability. Connects to the credit card and retrieves account information.

FITNESS FIEND (APIS, DATABASES, UI, PYTHON, HTML/CSS, JAVASCRIPT)

- A bot that integrates with Discord's API. Includes an initiative tracker, dice rolling, name generator, and various commands that assist with role playing based off the ruleset of Dungeons & Dragons

BANKING SYSTEM (MULTITHREADING, CONCURRENCY, UNIX SYSTEM, C)

- A multi-threaded banking system that concurrently processed many account accesses/transactions, fed through an input file. System calls were used to implement mutex locks and avoid deadlocks

RPG CHARACTER CREATOR (C++)

- A text-based character creator that prompts a user with choices and creates a fantasy character based on those choices. Also includes a simulator that one can use to test their character against foes