

ELIJAH KLIOT

Website: ekliot.com
Email: ekliot@gmail.com

LINKS

Github:// github.com/ekliot
LinkedIn:// linkedin.com/in/ekliot
Twitter:// twitter.com/ekliot

EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY

BS in Computer Science 2019

Minors in Creative Writing, English Lit.
Total GPA: 3.44 | Major GPA: 3.60
Dean's List (2016-)

COURSEWORK

- Global Illumination
- Neural Networks
- Principles of Data Management
- Programming Language Concepts
- Analysis of Algorithms
- Game-Based Fiction Workshop

SKILLS

LANGUAGES

Python, C++, Java/Coffeescript, Ruby,
SQL, Java, Haxe

TOOLS

git, bash, Linux, OpenGL, Django,
Ruby on Rails, Godot, jQuery, LaTeX

TOPICS

Algorithms, Relational Database Design,
Computer Graphics, AI/Machine Learning,
Functional programming, Agile+SCRUM

BONUS

- US Citizenship
- Longsword duelist
- Conversational Russian
- Forever dungeon master

EXPERIENCE

KUDU DYNAMICS SOFTWARE ENGINEERING INTERN [July:Dec] 2018 (Expected)

Kudu harnesses the asymmetries of the cyber domain to deliver cutting-edge offense

- Joined the Spectrum Collaboration Challenge (SC2) project team
- Delivered features and infrastructural development for DARPA contracting
- Exercised proficiency in Python and SQL

CODONICS SOFTWARE ENGINEERING INTERN [June:Dec] 2016

Codonics are creators of FDA-approved medical devices used in hospitals.

- Led development of the Safe Label System Message Notification System.
- Developed Java applications and kernel-level embedded systems
- Full stack development for a Grails web-application
- Thorough testing for FDA standards.

RIT COMPUTER SCIENCE LAB INSTRUCTOR [Aug:Dec] 2015

Provided students with technical lab assistance

- Responsible for grading 26 weekly Python submissions
- Held office hours twice a week
- Guided students through class and supplemental material

PROJECTS

RAVENMASKER | TWITTER-BASED STEGANOGRAPHY

Github:// [ekliot/RavenMasker](https://github.com/ekliot/RavenMasker)

Steganographic algorithm built in Ruby to send covert communications via Twitter

- Designed an algorithm and cryptographic method to hide and reveal messages
- CLI application to encrypt ASCII payloads using hashtags
- Exercise in cryptographic validity and lateral thinking

C++ RAY TRACER | AN EXERCISE IN GLOBAL ILLUMINATION

Github:// [ekliot/Global-Illumination-Ray-Tracer](https://github.com/ekliot/Global-Illumination-Ray-Tracer)

Partner project to build a ray tracing renderer in C++ for a graduate graphics course

- Ray tracing and intersection algorithms, spatial data structures
- Light reflection, scattering, and photon mapping
- Volumetric lighting techniques

ARCO | ROGUELIKE COMBO-BUILDING ACTION CARD GAME

Github:// [ekliot/Arco](https://github.com/ekliot/Arco)

Deck building system emulating martial arts and emphasizing player creativity

- Designed and refined a combo-building mechanic and decks of cards
- Application of algorithmic complexity and game programming patterns
- Prototyped on paper, now built using Godot with <3