

Daniel Leef

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EDUCATION

University of Oregon, Dual Degree, Graduated: **March, 2021**, Overall GPA: **3.81**

BS Computer Science / BS Economics / Minor Math

Research Interests: Applications of computer science to solve economics and business problems, data visualization / science, optimization, market modeling, financial engineering, cybersecurity

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Machine Learning, Advanced Economic Theory, Behavioral Economics, Econometrics, Game Theory, Computer & Network Security

SKILLS

- **Languages:** C, C++, Java, C#, Python, Typescript / Javascript, Swift, HTML, Haskell, Racket, and R
- **Technologies:** Redis, Spring Framework, GraphQL, Docker, Kafka, React, SQL, MongoDB, Firebase
- **AWS:** EC2, ECR, S3, ElastiCache, Elastic Beanstalk, Lambda

EXPERIENCE

Employment

- **Microsoft – Software Engineering Intern** (June, 2020 – September, 2020)
 - On the Key Vault Managed HSM team within C+AI Security: designed and deployed to production a website that allows quick access to crucial, real-time security data
- **Nordstrom – Software Engineering Intern** (June, 2019 – September, 2019)
 - On the Prices and Promotions team: designed, implemented, and deployed to production a new database layer that masks data using inputted templates without affecting latency
- **Mentor, a Siemens Business - Software Development Intern** (June, 2018 – September, 2018)
 - Built a GraphQL API for ContextSDM™ product; re-implemented for Apache Kafka

Research, University of Oregon

- **Center for Cybersecurity and Privacy (CCSP) – Research Assistant** (April, 2019 – March, 2021)
 - CAPTURE: defending against and thwarting Phishing attacks through social computing
 - Cryptocurrency: tracking malicious BitCoin activity (**UO Ripple Scholarship** recipient)
 - Developed BitCaught, a system to accurately detect malicious Bitcoin wallet addresses (paper: dleef.github.io, code: github.com/dleef/BitCaught)

Independent App Development (December, 2019 – Present)

- Created iOS application **BlubHub** (available on Apple app store) that provides anonymous college-based messaging forums with upvote / downvote capabilities (using Swift, Firebase)

Encryption Project (September, 2015 – February, 2016)

- Junior year High School Science Project: **“Creating a Secure Communications System Using a One-time-pad Exchange Method and a Web-generated Substitution Cipher”**
- Conceived, designed, and implemented with Java and in Eclipse an encrypted communication system that uses Web Services APIs to derive randomness from weather and stock data

Entrepreneurship Club (September, 2014 – May, 2017)

- Co-founded a forum where top business executives, as well as locally and nationally renowned entrepreneurs, come to speak with students about their paths to success

PERSONAL: filmmaking / screenwriting, poetry, skiing, hiking, basketball, traveling, cooking gourmet meals, UO Club Tennis, two-time Oregon state tennis champion (4A/3A/2A/1A) in doubles: 2016, 2017