

# David Oniani

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For my research papers, projects, and full CV, please visit <https://www.davidoniani.com>.

## Education

08/2017 – 06/2021 (expected) **B.A. Computer Science, Mathematics, 3.933 CS GPA**, [Luther College](#), Decorah, IA.  
**Relevant courses:** Applied Statistics, Data Modeling and Querying, Linear Algebra, Advanced Algorithms and Data Structures, Programming Languages, Operating Systems and Architecture, Object-oriented programming with C++, Models of Computation, Topology, Mathematical Reasoning and Writing, Game Theory.

## Technical Skills

Languages: **Advanced:** Python, Haskell, Shellsript (POSIX-compliant), HTML, CSS.  
**Proficient:** R, Rust, Java, SQL, Javascript, TypeScript, C/C++, Zsh.  
**Acquainted:** Standard ML, Lua, Scheme, VBA, C#, Batch.

Development Tools: macOS, Linux, kitty, Neovim, VS Code, Git, Jekyll, WordPress, Virtual Box, GitHub, Jupyter, SageMath, RStudio, Cron, Travis CI, Blender, Unity, Adobe Illustrator, ZBrush, Substance Painter, 3DS Max.

Other Skills:  $\text{\LaTeX}$ , Technical Writing, Markdown.

## Work Experience

02/2019 – 05/21 **Undergraduate Intern - Kern Center**, [Mayo Clinic](#), Rochester, MN.  
08/2019 – Present **Preceptor**, [Luther College](#), Decorah, IA.  
Fall 2019 [Object-Oriented Programming With Java \(CS 252\)](#) with Dr. Shafqat A. Shad.  
Fall 2018 [Introduction to Computer Science \(CS 150\)](#) with Dr. Alan K. Zaring.  
◦ Held help hours to assist students with homework assignments and answered questions during labs.  
06/2018 – 12/2018 **Web Programmer**, [Luther College](#), [ITS - Software Development](#), Decorah, IA.  
◦ Contributed to new [Norse Hub](#) web system which has successfully replaced [my.luther.edu](#).  
◦ Communicated with team, wrote reports, and attended weekly SCRUM meetings.  
◦ Conducted performance & load testing using JMeter and presented results.  
03/2017 – 07/2017 **Co-Founder and CEO**, [Warbler](#), Tbilisi, Georgia.  
◦ Processed five-year data (180k+ rows) of UNE (Unified National Exams of Georgia).  
◦ Designed logo; built pitch, presentation, and WordPress-based website for start-up.  
◦ Created social media chatbot using Chatfuel API and set up Zoho mailing system.

## Research Experience

Fall 2019 **Directed research in programming languages with Dr. Alan K. Zaring.**  
◦ Extended CCL language, wrote type-checking rules, made key contributions to type system.  
Summer 2019 **Collaborative research on visual persuasion with professor Richard K. Merritt.**  
◦ Trained convolutional neural networks for image recognition using PyTorch.  
◦ Wrote Python scripts for PDF image/text extraction and data cleanup.  
◦ Performed extensive set of both statistical and textual analyses using state-of-the-art algorithms.  
Summer 2018 **Collaborative research on unit testing with Dr. Roman Yasinovskyy.**  
◦ Automated feedback generation for C++ programming course.  
◦ Redesigned and significantly improved SQL and relational algebra solution checker.  
◦ Designed testable practice problems for algorithms and data structures course.

## Honors and Awards

2019 Recipient of Competitive Herbert J. Rebasoo Scholarship, awarded by Math Department  
2018, 2019 Recipient of Two Luther College Dean's Office Summer Research Awards  
All Semesters Dean's List Recipient, [Luther College](#)  
2017 Recipient of Highly Competitive Xie Math Scholarship, awarded by Math Department  
2017 Selected Start-up Project ([UnleashAR](#)), TOP 200, [Wolves Summit](#) (largest start-up investment/networking conference in Europe)  
2016 Gold Medal for Academic Excellence, [Ministry of Education and Science of Georgia](#)  
2011 – 2016 Five-time Finalist (TOP 35 out of over 3,000 participants), [National Mathematics Olympiad of Georgia](#)

## Language Proficiency

◦ English (Native/Bilingual)      ◦ Russian (Native/Bilingual)      ◦ Mingrelian (Native/Bilingual)  
◦ Georgian (Native/Bilingual)      ◦ Japanese (Elementary)