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David Oniani

For my papers and projects please visit `https://www.davidoniani.com`.

Education

08/2017 – 06/2021	**B.A. Computer Science, Mathematics**, *Luther College*, Decorah, IA. Double major in mathematics and computer science. Advisor: Dr. Alan K. Zaring.
10/2016 – 12/2016	**Sales MBA Diploma**, *International Sales Institute*, Tbilisi, Georgia. Rigorous trainings in inbound & outbound sales, merchandising, and marketing operations.
09/2011 – 07/2016	**High School Diploma**, *Komarovi Campus School*, Tbilisi, Georgia. Graduated with the highest honors. Represented the school in various math and physics olympiads.

Work Experience

02/2020 – 05/2020 **Research Intern - Kern Center**, *Mayo Clinic*, Rochester, MN.

08/2018 – 12/2019 **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 and assisted students with homework assignments.
  - ○ Attended all classes and answered students' questions during the labs.

06/2018 – 12/2018 **Web Programmer**, *Luther College, ITS - Software Development*, Decorah, IA.
- ○ Contributed to the brand new Norse Hub web system which has successfully replaced my.luther.edu.
- ○ Communicated with the team, wrote reports, and attended weekly SCRUM meetings.
- ○ Conducted performance & load testing using JMeter and presented the results.
- ○ Created a data visualization tool utilizing JavaScript DOM.
- ○ Migrated from the Microsoft to the Linux server and refactored the Python code.

03/2017 – 07/2017 **Co-Founder and CEO**, *Warbler*, Tbilisi, Georgia.
- ○ Spearheaded the team of young and enthusiastic software developers.
- ○ Processed five-year data (180k+ rows) of UNE (Unified National Exams of Georgia).
- ○ Designed the logo; built the pitch, presentation, and the WordPress-based website for the start-up.
- ○ Created a social media chatbot using Chatfuel API and set up Zoho mailing system.

11/2016 – 09/2017 **Freelance Graphic Designer**, *Behance (not affiliated)*.
- ○ Designed logos and posters for various companies in the local and the global market.
- ○ Instructed and taught the basics of design to several aspiring graphic designers.

10/2016 – 06/2017 **Sales Representative and Marketing Coordinator**, *Insta LLC*, Tbilisi, Georgia.
- ○ Partook in the complete rebuild and redesign of sales and marketing departments.
- ○ Contributed to the CRM, was responsible for data gathering, filtering, and entry.
- ○ Managed social media, responsible for targeted campaigns, copywriting, and image-editing.
- ○ Cold-called and contacted clients to build and maintain long-term relationships.
- ○ Attended a number of staff meetings and new product/partner presentations.

Research Experience

Fall 2019 **Directed research in programming languages with Dr. Alan K. Zaring.**
- ○ Redesigned and made a few significant contributions to the type system.
- ○ Introduced the notion of container types to the language.

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 an extensive set of both statistical and textual/NLP 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 the algorithms and data structures course.

Volunteer Experience

2016	Transparency International Georgia	*Observed Georgian Parliamentary Elections*
2016	Khan Academy	*Subtitled Georgian and Russian videos*

Honors and Awards

2017, 2018, 2019	Multiple Competitive Scholarships, Luther College
2018, 2019	Recipient of 2 Luther College Dean's Office Summer Research Awards, Luther College
All Semesters	Dean's List Recipient, Luther College
2017	Selected Start-up Project (UnleashAR), TOP 200, Wolves Summit
2016	Gold Medal for Academic Excellence, Ministry of Education and Science of Georgia
2011 – 2016	Five-time Finalist (7th Place, TOP 10, in 2014), National Mathematics Olympiad of Georgia
2014	IMO & IPhO Nominee, Ministry of Education and Science of Georgia
2011 – 2016	Won a number of various mathematical olympiads, Varied

Other Courses and Certificates

2019	Machine Learning & AI: Advanced Decision Trees, LinkedIn Learning
2019	NLP with Python for Machine Learning Essential Training, Linkedin Learning
2018	Machine Learning Crash Course, Google
2017	Think About It, Campus Clarity
2017	How to Rock Social Media, LinkedIn Learning
2016	South Caucasus Leadership Forum Participant, GSFL, Friedrich Naumann Foundation
2016	Parliamentary Elections Observation Mission Training, Transparency International Georgia

Technical Skills

Languages:	Python, Haskell, Shellscript (POSIX-compliant), Rust, JavaScript, Java, R, C++, C, HTML, CSS, Type-Script, Bash, Zsh, Vimscript, SQL, Standard ML, Scheme, VBA, Lua, C#, CCL, Batch script.
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:	LaTeX, Technical Writing, Markdown.

Language Proficiency

English	Native Proficiency
Georgian	Native Proficiency
Russian	Native Proficiency
Japanese	Elementary Proficiency
Mingrelian	Native Proficiency (one of Kartvelian languages, widespread in western parts of Georgia)

Papers, Reports, and Poster Presentations

2019	Textual and Statistical Analysis of Russian IRA Facebook Advertisements
2019	Type Inference Rules For Container Types in CCL
2019	The Topology of Robotic Configuration and Motion Planning
2018	Unit testing frameworks in the classroom (applied research report)
2018	Photography as a socially influential medium in Jennifer Baichwal's *Manufactured Landscapes*