

# Nicholai Dimov

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## Education

### Washington University in St. Louis

St. Louis, MO

B.S. IN COMPUTER SCIENCE AND MATHEMATICS, DOUBLE MAJOR IN FINANCIAL ENGINEERING

- Overall GPA 4.00/4.00, Arthur Holly Compton Fellow (Full-tuition merit scholarship), Dean's List all semesters
- Relevant Coursework: Data Structures and Algorithms, Linear Algebra, Modern Algebra, Differential Equations, Probability and Statistics, Systems Software, Time Series Analysis

## Experience

### MealMe

San Francisco, CA

SOFTWARE ENGINEERING INTERN

Jun — Aug 2021

- Architected and built REST APIs in Python and Flask that handle 100k+ orders across dozens of food ordering platforms
- Cut customer service usage by 70% with new tooling as revenue increased by 300% over 2 months
- Overhauled user experience for cancelled orders with automated refunds, MealMe Bank deposits, and emails
- Built internal tools with JavaScript, Python, Firebase, MongoDB, and Gmail API. Discovered and fixed major issues across multiple servers

### Washington University in St. Louis

St. Louis, MO

UNDERGRADUATE TEACHING ASSISTANT FOR CSE 247 (DATA STRUCTURES AND ALGORITHMS)

Jan — May 2021

- Taught students asymptotic analysis as a method to determine scalability and effectiveness of solutions to algorithmic problems
- Led interactive group studios, weekly office hours, and graded written lab writeups for this class with 300+ students

### II-VI Advanced Materials

Pine Brook, NJ

RESEARCH & DEVELOPMENT INTERN

Jun — Aug 2019

- Spearheaded investigation into the efficiency of a new process for producing different types of single-crystal silicon carbide wafers
- Performed production flow analysis in Minitab to optimize the acquisition of multimillion-dollar machines

## Personal Projects

### Course Chat Linker (<https://ndimov.com/course-linker>)

- Website in React, Express, and Node.JS used by hundreds of students to search for, join, and upload group chats for each of their classes
- Integrates seamlessly with WashU's course catalog and student schedules
- Supports chat commands via GroupMe's API, legacy data via Google Spreadsheets, and interfacing with MongoDB

### Eco2Go Tracker (<https://github.com/ndimov/eco2go-tracker>)

- Winner at Caltech's Hacktech 2021 as best Environment & Sustainability Hack
- Created dynamic front-end UI in React using Material UI for logging returns of reusable Eco2Go containers and leaderboards of top students
- Wrote backend data integrations and architected database schema with Firebase and Cloud Firestore

### Hanab Live (<https://hanab.live/>)

- Overhauled views and controls in TypeScript to enable this multiplayer card game on mobile
- Rectified corrupted game data for 100k+ games using SQL and Go caused by a restructuring of the game database

## Leadership

### WashU Puzzle Club

St. Louis, MO

PRESIDENT AND FOUNDER

2021 — present

- Select and lead diverse activities during weekly meetings that match members' interests in crosswords, logic puzzles, and more
- Organize and manage weekend-long team puzzlehunt competitions

### Math-M-Addicts

New York City, NY

AFTERMATH MENTOR

2018 — 2020

- Volunteered to mentor younger students in advanced mathematical topics in this highly-selective Saturday problem-solving program
- Prepared and gave engaging, interactive lectures on an assortment of math topics

## Awards

**ICPC** – Led team to qualify for 2021 North American Division Championship

**Math Kangaroo** – 1st place nationally for 8 years in a row. Invited as 1 of 10 Americans to Zakopane Math Camp in Poland, all expenses paid

**USAJMO** – 2019 Qualifier, from top 0.05% nationally (250 students)

**USACO** – Gold Division, ranking in top 500 of pre-college participants nationally

**Bloomberg Summer of Puzzles 2020** – 2nd place winner

## Skills

### Languages

Python, TypeScript, JavaScript, Java, C++, HTML, CSS, Ruby, SQL, Go, Bash Scripting

### Technologies

AWS, Heroku, Git, Docker, Linux, MongoDB, Firebase, React, Node.js, Express.js, PostgreSQL,  $\LaTeX$