

# Christopher Dumas

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## Employment

- Junior programmer for Open Water startup (2013)
- Morgan Hill Aquatics AC Swim Instructor (summer of 2017)
- [Mathnasium](#) tutor (2017-present)

## Honors/Awards

- Saratoga Library Hackathon 3rd place winner as only team programmer (2016)
- [Graduating High School](#) with highest honors, a 4.25 GPA and 64 college credits, including Discrete Math, Calculus I, Calculus II and Multivariate Calculus.

## Extracurricular Activities

- USA Swimming Senior Swimmer (2013-2017)
- South Valley Stingrays Swim Team (2016-2017)
- SUNN Swim Team (2015-2016)
- Botball programmer for team 16-0636 (2015-2016)
- BASIC Math Club member (2015-2016)
- San Jose Bicycle Club Member (2017-present)
- ID Tech VEX Robotics at Stanford team captain (summer of 2015)
- Santa Teresa High School FIRST Robotics Team 2643 (current)

## Volunteer Work

- Bernal Church AV Team member (current)
- Sunnyvale TAG Swim Instructor Intern (summer of 2016)
- CoderDojo mentor (2013-present, off-and-on)

## Interests (in order)

1. Programming
2. Writing and Philosophy
3. Machine Learning
4. Mathematics

## Goals and Aspirations

Software engineer or computer scientist in AI or systems (server, OS) programming.

## Personal Projects

- [Astra Terra](#): A complex, isometric real time strategy game, driven by goal oriented, constraint solving AIs. This is a closed-source project that I'm working on with an artist and another programmer. We plan to release it on Steam.
- [Bike](#): A functional, immutable, gradually-typed programming language implemented in Ruby and a Bison-alike. My first foray into large projects.
- [Atomic Database](#): A logic-based database that can do inferences based on known facts in addition to SQL type queries. Rules are introduced through a lisp-like or natural language syntax, and queries are phrased through a natural language query system. Written for a Hackathon.
- [CARDIAC Emulator](#): An emulator, assembler, and memory visualizer for an [old cardboard computer learning aid](#).
- [VOORM](#): Lightweight, extensible, hotloading, VIM-compatible terminal editor written entirely in PicoLisp. This is a side-project, designed with a friend.



July 19, 2016

To whom it may concern,

I recently had the pleasure of having Christopher Dumas volunteer as a part of our swim instruction team at Sunnyvale Middle School Pool. Christopher assisted our swim instructors in teaching children the fundamentals of swimming. He helped with the set-up of class and end of the day duties when closing the pool facility. Christopher followed through on any assignments well and without hesitation. He consistently arrived on time and was always willing to stay as late as necessary.

I have spoken to our swim instructor staff, who worked most directly with Christopher, regarding his performance. They could only come up with positive things to say regarding his punctuality, his eagerness to learn, his ability to follow rules and directions, and constant willingness to help out. My staff also noted his inclination to go above and beyond in all tasks he was assigned, proving his ability to be a strong member of our team.

Christopher proficiently accomplished all tasks assigned to him, and performed strongly as a volunteer for the City of Sunnyvale. I highly recommend considering him for any position that requires a reliable team member.

Regards,

Hisham Hussein  
Pool Manager  
City of Sunnyvale, Parks and Recreation Department

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