Kevin Zou
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Education

- **University of Michigan, Ann Arbor** — Ann Arbor, MI
  Bachelor of Science in Computer Science; GPA: 3.34; Expected Graduation May 2022 — *Sep. 2018 – Present*
  - **Relevant Coursework**: Discrete Math, Data Structures & Algorithms, Computer Organization, Computer Security, Database Management Systems, Intro Artificial Intelligence, Game Design & Development
- **Thomas Jefferson High School for Science and Technology (TJHSST)** — Alexandria, VA
  Advanced Studies Diploma; GPA: 4.224 — *Sep. 2014 – June 2018*
  - **Relevant Coursework**: AP Computer Science A, Computer Vision, Artificial Intelligence, Parallel Computing

Programming Skills

- **Languages**: C/C++, C#, HTML/CSS, Java, Javascript, Python, Go **Proficiencies**: Debugging, Profiling, Optimization
- **Technologies**: Angular, Django, Node.js, OpenCV **Misc**: AWS, CircleCI, TFS, Agile

Work Experience

- **QuickenLoans** — Detroit, MI
  Software Developer Intern — *June 2020 - Present*
  - **The Answer**: Worked on an internal web app for quickly finding information relevant to business operations, ranging from financial policies to tech support. Contributed code and fixes for the Backend-for-Frontend (BFF) and Angular Frontend.
  - **Utilized**: AWS Lambda/Neptune/SQS, Angular, HTML/CSS/JS, C#, .NET Core, MongoDB
- **Kashmir World Foundation** — Alexandria, VA
  Image Processing Intern — *Sep. 2016 - June 2018*
  - **MiSHELL Drone Project**: Programmed drones to autonomously track sea turtles for animal conservation. I organized image data sets, trained neural networks to recognize and classify turtle tracks, and worked on optimizing the image recognition to run locally on a custom-built drone.
  - **Utilized**: Python, Dronekit, and Darknet Computer Vision Library. Trained using Google Cloud Platform

Research Experience

- **Computational Biology Research Mentorship** — Fairfax, VA
  at George Mason University — *June 2017 - June 2018*
  - **Project**: Memetic Evolutionary Algorithms for De-novo Protein Structure Prediction
  - **Mentor**: Dr. Amarda Shehu, Computer Science Department @ https://cs.gmu.edu/∼ashehu/
  - **Topics**: Computational biology, genetic algorithms, de novo protein structure prediction, stochastic optimization

Projects

- **UM::Autonomy, Autonomous Boat Team, University of Michigan**: Programmed drivers for sensors and embedded systems on an autonomous boat, in addition to processing sensor data for use in other systems within the boat.
  Utilized: Python and C++ with the ROS robotics library.
- **TJREVERB Cubesat Project, TJHSST**: Student-run project to send a satellite into orbit. I contributed code for our outreach website and the satellite's radio communications. Greenlit by NASA for a 2019 launch.
  Utilized: HTML, Javascript, CSS, and Python.
- **Open-Source Video Game-related Development**
  https://github.com/nkzou
  - **Modding/Automation**: Writing short video game scripts and reverse-engineering tools to modify and emulate games. (AutoHotKey, Node.js)
  - **Game Client Emulation**: Developed a custom command-line client/emulator for an MMO game, allowing users to chat and carry out simple tasks (trade, view friends, etc) without the need to open the full game client. (Node.js, blessed)
  - **Informational Web App**: A spreadsheet based web database for the mobile game Doll's Frontline, providing game stats and info. (HTML/CSS/JS, ag-Grid, i18n, Django)