60 S Boulder Cir, Apt 6032
Boulder CO, 80303

MATTHEW DINH

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EXPERIENCE AND ACTIVITIES

Software Engineering Intern   **Cognex Company**   **May 2019-Present**
- Design and testing of image processing algorithms and machine vision systems
- Decreased variability and improved performance of verifier products using C++
- Added to automated testing framework for verifier products using C#

Security Guard   **Norlin Library**   **May 2018-August 2019**
- Ensuring the safety of patrons, the library, and its property
- Customer Service

Family Leader   **Vietnamese Student Association**   **August 2017-Present**
- The Vietnamese Student Association at Boulder aims to preserve and promote Vietnamese culture by providing events and support for students to establish a common ground for cultural awareness
- Activities include fundraising, volunteering, retreats, and cultural events

EDUCATION

Boulder, CO   **University of Colorado Boulder**   **August 2016–May 2020**
- B.S. Computer Science
- Computer Science GPA: 3.45
- Coursework: Algorithms, Data Structures, Linux System Admin., Computer Systems, Operating Systems, Artificial Intelligence, Data Mining, Principles of Programming Languages, Data Science, Calculus III

PROJECTS

- **https://github.com/matthewdinh419, https://www.linkedin.com/in/matthew-dinh-b1816315b/**
- **Festo Blockchain Senior Capstone** (2019-Present)
  - Software licenses management using the ethereum blockchain technology as well as a design of a seperate custom blockchain for Festo Company
  - *Solidity, Ansible, Raspberry Pi's, C, Raft*
- **Video Game Success Model** (2019)
  - Dataset analysis of Steam video games that uses various preprocessing techniques and a gradient boosted regressor to calculate future/present video game's success
  - *Python, Jupyter Notebooks, Markdown*
- **Imageination** (2019)
  - Website that outputs a caption containing descriptions of user submitted images. Uses Google's Tensorflow and MSCOCO dataset to create an attention based model to generate captions
  - *Tensorflow, Python, Javascript, HTML, CSS, Redis*
- **AxisAIO** (2018)
  - Bot that automates the purchase of items through Shopify websites
  - *NodeJS, Javascript, Electron, HTML, CSS, Postman*
- **Resource Library** (2017)
  - Crowdsourced website that provides and ranks resources for searched topics
  - *PHP, SQL, React, Laravel*

SKILLS

- Advanced: C++/C, C#, Python, Solidity
- Proficient: NodeJS, Javascript, HTML, CSS, Java
- Experience with agile methodology using Jira software
- Github, SVN proficiency
- Misc: GCP, AWS, Hadoop and Linux proficiency
- First-Aid, CPR, and AED BLS certified
- Beginning-Moderate Spanish, Beginning-Moderate Vietnamese