

SUMMARY

Software Engineer currently open to full-time opportunities in AI/ML, web development, or software development. Significant experience in Rails, React.js, C++, Python.

EXPERIENCE

- **Hunt Club Recruiting** Folsom, CA
Software Engineer *Dec. 2021 - Nov. 2022*
 - Developed and shipped many features and improvements to platform search functionality, with particular emphasis on improving search results relevance and filter performance
 - Worked with internal data engineers to calculate valuable insights about candidates in our database, and exposed them to users of our platform
 - Implemented many process improvements in our quickly-growing engineering team, including a bug captain process, improved documentation for core parts of the platform, better communication around tasks that heavily impact an app's performance, and mandated test coverage for new pull requests
- **Tata Consultancy Services** Folsom, CA
Software Engineer *Mar. 2021 - Dec. 2021*
 - Worked in international team to develop and maintain AI software for real-world damage detection
 - Designed and customized software for client use to optimize operational efficiency
 - Maintained systems by monitoring, identifying, and correcting software and hardware defects

EDUCATION

- **University of California, Davis** Davis, CA
Bachelor of Science in Computer Science *Sept. 2015 - Mar. 2020*
- **Arizona State University** Tempe, AZ
Master of Computer Science - Cybersecurity *May 2020 - July 2021*

Highlighted courses:

- **Accelerated Applied Security:** explored the ways computer system security can fail and how to exploit them, covering topics such as reverse engineering, memory corruption, shellcoding, stack cookies, ROP, ASLR, heap allocation, and race conditions
- **Advanced Computer Network Security:** packet filter firewalls, network intrusion detection/prevention, cloud network security, moving target defense in computer networks, build secure networks to counter given network attacks

PERSONAL PROJECTS

- **Neural Networks for Collision Prediction:** Design a custom neural network architecture to help a robot navigate a simulated environment while dynamically processing sensor inputs to avoid collisions. Created using assorted Python libraries, including PyTorch, sklearn, and numpy. Project page available [here](#).
- **Geospatial Queries:** Use SparkSQL and Scala to extract and perform geospatial queries on data from a large, unstructured database, apply spatial statistics in the form of the Getis-Ord calculation to spatio-temporal big data to identify statistically significant geographic hotspots. Project page available [here](#).
- **Color Palette:** React app utilizing a plethora of packages, such as react-copy-to-clipboard, chroma.js, rc-slider, Material-UI, react-sortable-hoc, emoji-mart, react-transition-group, and react-router-dom. Users can design and save color palettes. Project page available [here](#).

COMPUTER SKILLS

- **Languages & Concepts:** Rails, React.js, Elasticsearch, Javascript, Postgres, C, C++, SQL, HTML, OOP, Data Structures, Algorithms, ML/AI, C#, Java, Python, Golang, Common Lisp, SWI-Prolog, MATLAB, Apex
- **Tools & Systems:** Linux, macOS, Windows, Microsoft Office Suite, SolidWorks, Autodesk Inventor, AWS, Docker, Travis CI, Circle CI, Git, Burp Suite, Salesforce, Microsoft Azure, Heroku