

Zachary Robin

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EDUCATION

Santa Clara University

B.S. Computer Science and Mathematics

Santa Clara, CA

Jun 2020

Relevant Coursework: Software Management and Design | Machine Learning & Data Mining | Discrete Math | Object | Oriented Programming | Theory of Algorithms | Programming Languages | Computer Networking | Linear Algebra | Databases & Data Structures | Operating Systems

WORK EXPERIENCE

Aloa

Software Engineering Intern

Remote

Oct 2020 – Present

- Full stack application design utilizing RESTful APIs
- Implemented unit testing to existing code base
- Interface with remote development teams to design and perform analysis of platform to ensure scalability

Adaptive Biotechnologies.

Software Engineering Intern

Seattle, WA

Jun 2019 – Aug 2019

- Worked with Software Engineering Assurance team (SEA) utilizing Agile software development
- Designed scalable automated tests in Java to validate and verify Pipeline for Ogami Release
- Designed parsing algorithms in Java for internal XML, JSON, CSV and TSV documents improving readability
- Debugging, testing and documenting existing Java code from previous pipeline releases in Confluence and Jira
- Researched and designed full stack MERN application for conference room displays

The 2thFairy NPO

Co-Founder & Operations

Seattle, WA

May 2011 – Jun 2017

- Created, designed and maintained live website
- Coordinated partnerships with over 15 national and international organizations
- Acquire donations and manage fundraisers

PROJECTS

Programming Artist

- Designed and programmed Unity3D games in C# with small team
- Visualization and procedural generation of L-System algorithm in C#

Machine Learning

- Trained convolutional neural network for melanoma identification through deep learning with an accuracy of 71.51%

EXTRACURRICULAR

SCU Emergency Medical Services

EMT-B / Operations Officer

Santa Clara, CA

Apr 2018 – Jun 2020

- Responded to emergencies in university community performing complete medical and psychological assessment with prehospital treatment
- Balanced and maintained an operational budget of \$25,000/year

Santa Clara Laptop Orchestra

Member of Ensemble

Santa Clara, CA

Dec 2019 – May 2020

- Designed and programmed synthesizers in Supercollider
- Programed music visualizer and interpreter in Python

Hour of Code

Volunteer

San Jose, CA

Dec 2017 & Dec 2020

- Presented on computer science and coding to novice middle school and high school students
- Mentored and assisted over 90 high school freshmen with first time coding

LANGUAGES & SKILLS

Languages: C++ | Java | Python | C# | C | Scala | React | Node.js | JavaScript | HTML | CSS | SQL

Computer Skills: Jira | NoSQL | JSON | XML | Azure Web Services | AWS | Google Firebase | Git | GitHub | FTP | Redux | Unity Engine | Linux | Docker | Mongo DB |