

# GRANT FONSECA

## Software Engineer

Santa Rosa, CA

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(707) 326-4959

### PERSONAL STATEMENT

Software Developer with 5+ years of hands-on experience in maintenance and development of high quality web based applications as per design specifications. Confident and capable professional with years of experience working in a fast-paced environment with 100,000s of customers and tens of millions of Net New ARR (Annual Recurring Revenue). Proven success increasing business efficiency and delivering world-class solutions. Known for bringing innovative concepts in application design, streamlining processes using technology, and capitalizing on opportunities to improve code delivery. Hands-on experience delivering cybersecurity solutions to a variety of issues (addressing vulnerabilities, firewall rules, creating a honeypot, etc). Consistently displayed strong interpersonal skills as well as a high level of professionalism in my interactions with colleagues, superiors, and customers. Experience designing and building data models for various projects.

### SOFT SKILLS

- Software Development Lifecycle
- System Debugging
- Design Optimization
- Troubleshooting
- Requirements Gathering
- Project Management
- Performance Improvement
- Agile/Waterfall
- Strategic Planning
- Issue Resolution
- Analytical Skills

### TECHNICAL SKILLS

- C++, C, Python, HTML, CSS, Javascript, Node.js, Express.js, Redis, jquery, Java, Jackson, ThymeLeaf, Flexbox, Bootstrap, Jinja, Flask, SQL-Alchemy, Heroku, React, VIM/ NVIM, Android Studio, Agile, SQL, MySQL, Postman, Rest AdPI, IntelliJ IDEA, Android Studio, PyCharm, Visual Studio, Cyber Security, AWS, PagerDuty, Sumo Logic, White Hat penetration testing with Kali Linux, SSH, awk, grep, WIFI Network Security, Virtual Machine technology

### EDUCATION

- B.S. in Computer Science, Sonoma State University
- Udemy, Certified Ethical Hacker (C.E.H.) certification
- Familiar with COBOL, JCL, PL/SQL (Oracle)
- Ayurveda at MUM
- LinkedInLearning Courses on Cyber Security, Agile, and React.

### EXPERIENCE

#### Department Programmer Analyst

City of Santa Rosa - Water Department | Oct 2023 - Today

- IMPLEMENTED a workflow integration between two different asset management systems.
- CREATED a custom python script to enhance the GIS team's efficiency with implementing attribute rules.
- DEVELOPED automations using python to conduct data exchanges, transformations, and loads.
- CREATED FME & SQL Trigger automations to enforce business logic and ensure that dependencies are generated for specific workflows.
- DESIGNED several SQL Stored Procedures for reporting and triggers to leverage abstracted logic.

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#### Full-Stack Developer

OrgChartNow/TheOrgChart | Nov 2021 – May 2023

- ENHANCED existing code base to improve operational efficiencies and QOL for customers and peers.
- IDENTIFIED obstructions affecting the workflow of top paying customers, and brought to fruition the resolution.
- CONDUCTED in-depth evaluation of critical software defects and implemented corrective actions in a timely manner.

## **Programmer**

Cross-Check Inc | May 2021 - Nov 2021

- OPTIMIZED customer facing web site and Designed web applications using HTML, CSS, Javascript, JQuery, Java, and SQL.
  - ENABLED seamless transition from a legacy corporate website to a new website with new features to it using IntelliJ IDEA, Thyme Leaf and springboot.
  - AIDED employees in better understanding and modifying the structure of the data by developing a bootstrap U.I. with many modals.
  - ESTABLISHED a cross platform compatible site using flexbox and produced a dynamically-generated tree structure design for modeling backend data structure and mapping of numerous API calls to java beans through the Jackson library.
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## **Co-Founder/Software Engineer**

BGCIndustry | Nov 2020 - May 2021

- FORMULATED a comprehensive solution consisting of user account processing, completed HTML framework using Jinja and devised prototype and heroku's primary hosting service with GitHub.
  - FACILITATED automated background check of individuals by determining requirements, designing and testing Python based web application called Maxcrim.
  - SUPPORTED integrated functioning of HTML and Python with front-end using Flask and utilized SQL-Alchemy for the backend database.
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## **Senior Research Project with Professor Mark Gondree**

Sonoma State University | May 2020 - Aug 2020

- PROGRAMMED a library that was added to a larger framework already in place supplied and created by Professor Mark Gondree from Sonoma State University.
  - This library ANALYZED network traffic of the DEFCON 22 CTF games in order to determine where different flags were actually stolen and then from there traced back the traffic to find the actual traffic that showed when the intrusion/exploit took place.
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## **Security Software Engineer Intern**

23AndMe | May 2019 - Aug 2019

- CREATED and deployed a honeypot designed to notify the security team of any intrusions in POIs machines.
  - LEARNED about and worked with AWS, EC2, S3, PagerDuty, Canary Tokens, and Bash.
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## **Security Software Engineer Intern**

ISD, County of Sonoma | Jan 2019 - May 2019

- UPDATED incident response plan according to new security principles & guidelines.
- CREATED a C++ program which created a 2-3 tree to analyze network traffic data and surmise which IP addresses were safe and trusted sources, and used this information to create updated firewall whitelists.