

## Professional Summary

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Highly skilled Backend Software Engineer with over 3 years of experience in mobile application development, using Flutter to build for both Android and iOS platforms. Extensive experience in creating data systems, building full stack user experience, and driving company revenue. Effectively managing the coding, design and layout of a website according to a company's specifications, as well as integrating data from various back-end services and databases.

## Skills

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- Contributing to Design & Development
- Creating New Features & Data Systems
- Supporting Parallelism & Concurrency
- Building Delightful Full-Stack User Experiences
- Tackling Real Customer Needs
- Helping to Drive Company Revenue
- Deep Understanding of Product Inner-Workings
- Building Software & Automation
- Serving as a First Line of Defense
- Successfully Debugging Complex Systems
- Analytical & Results-Driven
- Working Backend, API, Mobile, Desktop & Web

## Technical Skills

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**Proficient:** C/C++, C#, Python, Django, MySQL, HTML, CSS, JavaScript, JSON, Flutter, dart, OpenGL, Machine Learning

**Familiar:** Linux, Winforms, .Net, GCP, MongoDB, Haskell, JSP, Node.js, Docker

## Work History

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### Backend Software Engineer Intern

2021

#### Fatou Co.

- Designing and building a recruiting website with Django and Python, regrouping the website layout to have a modern style.
- Utilizing AWS and MySQL for the database, focusing on mapping with Front-End and efficiently loading information.
- Performing some front-end jobs with Bootstrap, HTML, CSS, and jQuery.
- Creating functions like "sign-up", browse jobs and candidates, get matchability, apply for jobs, and calendar function.
- Taking the lead on certain projects as needed to ensure efficient results in a timely manner, and wearing multiple hats.
- Working with team members to troubleshoot and improve current back-end applications and processes.
- Utilizing tools to analyze current codebase, formulate more efficient processes, and create a seamless user experience.
- Building back-end systems that power mobile, optimizing protocol between client and server for reliability and speed.

### Computer Specialist

2014 to 2016

#### Zhongjian Computer Dalian Co., LTD – Dalian, China

- Successfully designed and developed business websites for multiple clients, as well as aided with website upkeep.
- Proactively conferring with teams to resolve conflicts, prioritize needs, develop content criteria, and choose solutions.
- Wrote well-designed, properly structured, testable, and efficient code by using best software development practices.
- Consulted with clients to identify system requirements and to develop design solutions to meet their technical needs.
- Installed and set-up network systems for multiple institutions, including configuring firewalls, switches, and routers.
- Effectively created website layout and user interface by using standard HTML/CSS practices.

# Education

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**Oregon State University – College of Engineering**, Corvallis, OR – 2016 to 2020

**Bachelor of Science** in Computer Science; GPA: 3.76, Cum Laude

- Applied computer science theory and software development fundamentals to produce computing-based solutions.
- Gained the experience needed to do complex work developing cloud applications with web/mobile interfaces.
- Analyzed complex computing problems, applying principles of computing and other disciplines to identify solutions.
- Designed, implemented, and evaluated computing-based solutions to meet a given set of requirements.
- Analyzed, designed, and developed interfaces for web sites and web applications, integrating data from multiple sources.
- Successfully designed and developed graphical user interfaces, interaction methods, workflows, and other front ends.
- Designed, developed, and maintained software to handle physics, graphics, sound, and performance of modern games.

**Sun Yat-sen University (Top-10 University in China)**, Guangzhou, China – 2010 to 2014

**Bachelor of Science** in Information Management & Information Systems

## Selected Software Development Projects

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**Fire & EMS Predictive Modeling Software (Individual)**

2019 to 2020

- Used Machine Learning to analyze the real-world dispatch rules of Fire and EMS crews.
- Developed with C#, and .NET framework, and used Winforms to build a modern style UI.
- Successfully imported 100K calls in 5 seconds and processed 200K results in one minute.
- Obtained a 95% test accuracy on a dataset through a maximum entropy multiclass algorithm.

**Performance Appraisal System of College Teachers (Teamwork)**

2013 to 2014

- Implemented a system for Teachers to get performance appraisal, upload information, and receive feedback.
- Efficiently programmed, utilizing the JSP language, as well as used SQL Server as the database.

## Papers & Publications

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Algorithm for Increment Update of K-Anonymity & L-Diversity Dataset

- Proposed a new anonymous dataset update algorithm that met K-anonymity and L-diversity.
- Successfully validated Algorithm effectiveness through the use of public databases.

## Leadership Activities

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**Vice Minister** – Student Union, Sun Yat-sen University School of Information Management

- Organized and hosted the first Orientation Adventure show, which has become the College's tradition.
- Led the annual College New Year Celebration to promote networking among over 1K faculty and students.

**Coach & President** – Debate Team, Sun Yat-sen University School of Information Management – 2011 & 2012

- Successfully increased team membership by 40% during Presidency, and helped lead the team to championship wins.

## Honors & Awards

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Multiple awards in Math, including the Olympiad Mathematics in High School

## Volunteer Experience

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- Food Bank Volunteer – Center for Civic Engagement, Corvallis, OR
- Librarian – Guangzhou Library
- Volunteer – The Games of the 2008 Olympiad – Dalian, China