

WEIYI ZHU

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WORK EXPERIENCE

Amazon

May 2022 – August 2022

Software Development Engineer Intern

Seattle, WA

- Accelerated the debugging process by 80% for on-call engineers by creating a parsing tool that finds metrics from logs.
- Designed the tool to be scalable, extensible, and capable of processing over 12k logs per minute.
- Assumed full ownership of the project and led the project from design to implementation.
- Utilized: Java, AWS (OpenSearch, Lambda, Step Functions, DynamoDB, S3, API Gateway)

MetroNet

May 2021 – August 2021

Software Engineering Intern

Evansville, IN

- Automated the phone porting process which contributed to the company's 90% installation success rate goal.
- Revamped the field technician tools interface by replacing table designs with responsive card and grid layouts.
- Designed, implemented, and tested reusable global utility components.
- Utilized: React, GraphQL, Figma, PostgreSQL, MuleSoft

Avidian Technologies

May 2020 – May 2021

Software Engineering Intern

Bellevue, WA

- Saved the company \$1,200 annually by automating the process of creating new customer databases.
- Launched a desktop and web app that gave users easier access to reports and administrators better management tools.
- Designed tables that displayed logs with sorting and searching features through server-side pagination.
- Utilized: C#, .NET, Microsoft SQL Server, HTML, CSS, jQuery

PERSONAL PROJECTS

Bird Compiler

May 2023

Class Project

- Developed a compiler in OCaml that parses, transforms, and compiles the “bird” language into x86-64 assembly.
- Implemented language features including arithmetic, conditionals, tuples, first-class functions and partial application.
- Optimized performance and memory use by implementing mark-compact garbage collection and tail-call optimization.
- Utilized: OCaml, C, x86-64 assembly

Hablink

May 2022

Team Project

- Developed a cross-platform mobile application that allows users to build and share habits with others.
- Implemented features for users to create/share habits, add/remove friends, and enter a competition with a friend.
- Utilized: React Native, TypeScript, Tailwind CSS, Firebase

News Compare

Aug 2021

Personal Project

- Developed a news comparison website with keywords searching, source selections and filtering options.
- Implemented a user authentication system with access and refresh tokens using JSON Web Token.
- Allowed users to save, manage and recover their favorite searches and news articles.
- Utilized: React, Express, Node, TypeScript, MongoDB, Redux, JWT

SKILLS

Programming Languages: Python, JavaScript, Java, OCaml, C++, C#

Frameworks: React (Native), Node, Express, TypeScript, SQL, MongoDB, Firebase, .NET, GraphQL, Redux

AWS: OpenSearch (ElasticSearch), Lambda, Step Functions, DynamoDB, S3, API Gateway

Tools: Git, Unix/Linux, Figma, Vim

Languages: English (fluent), Mandarin (fluent)

EDUCATION

Swarthmore College

May 2023

Bachelor of Arts in Computer Science

Swarthmore, PA

GPA: 3.8/4.0