



Professional Summary

Innovative Software Engineer with 8 years of experience developing high-performance applications across industries such as e-commerce, defense, and digital media. Specialized in utilizing modern technologies like JavaScript, Python, AWS, and React to create solutions that optimize system performance and enhance user experience. Adept at working with global teams, including extensive international experience in Japan. Certified in AWS and Artificial Intelligence, with a commitment to continuous learning demonstrated by ongoing personal projects. Seeking to leverage technical expertise and problem-solving skills to drive impactful projects in dynamic environments.

Certifications

- **AWS Certified Developer – Associate (2024)**
- **AWS Certified Solutions Architect – Associate (2024)**
- **AWS Certified Cloud Practitioner (2024)**
- **IBM Artificial Intelligence Fundamentals (2024)**

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Certifications In Progress:

- Microsoft Azure Fundamentals (Expected 2024)
- AWS Certified Developer – Professional
- AWS Certified Solutions Architect – Professional
- SAFe Agile Principles and Practices

Technical Skills

Programming Languages

- JavaScript, Angular.js, Node.js, Java, C#, C++, Python, PHP, HTML, XML, CSS, SQL

Libraries & Frameworks

- React, Redux, Vue, Material UI (MUI), SvelteKit, Tailwind CSS, Alpine.js

Database Management Systems

- PostgreSQL, MySQL

Cloud Tools

- AWS, Kubernetes, Docker

Application Development Tools

- Visual Studio / VS Code, Jira, Git, Android Studio, Bitbucket, Docker

Other Software

- Unreal Engine, Unity, MATLAB, AI LLM Training, Microsoft Office

Work Experience

Software Engineer, Mermory — Sept 2024–Present

Mermory is a digital solutions company specializing in creating engaging user experiences.

- Collaborate on developing high-performance applications focused on optimizing user engagement through innovative design and functionality.
- Implement backend services using AWS and Python, ensuring robust system architecture.
- Contribute to cross-functional teams, enhancing project delivery through effective communication and agile methodologies.

Stack: JavaScript, React, AWS, PostgreSQL

Software Engineer 2, Ziff Davis Shopping — Aug 2023–Oct 2023

Ziff Davis manages a portfolio of brands in technology, shopping, and entertainment.

- Developed enhancements for offers.com and blackfriday.com, improving SEO efficiency by 50% using Google Tag Manager.
- Collaborated on the Workshop Team, utilizing PHP, Laravel, and Alpine.js to improve various apps in the Ziff Davis portfolio.

Stack: PHP, Laravel, Alpine.js

Software Engineer, Give and Take, Inc. — Jan 2022–June 2023

Give and Take is a knowledge collaboration platform based on reciprocity principles.

- Led migration of Givitas from Rails 4 to Rails 6, improving mobile app performance and reducing load times by up to 50%. Improved CI/CD pipeline efficiency by integrating Docker into AWS, significantly accelerating deployment times.

Stack: React, Ruby on Rails, Redux, AWS, Docker

Software Engineer, Rakuten Group, Inc. (Japan) — 2021

Rakuten is a global innovation leader in e-commerce and technology.

- Worked in the Data Platform Department as a Front-End Engineer, developing features using JavaScript and React for Rakuten's platform using modern front-end technologies.

Stack: JavaScript, React, AWS

Software Engineer, Mighty Craft, K.K. (Japan) — 2019–2020

Mighty Craft is a leading mobile game and web solution development company.

- Developed a hybrid mobile application for a cosmetics company, integrating cross-platform features to enhance user experience.
- Collaborated on mobile game development, contributing to front-end design and functionality for multiple game projects.

Stack: Ionic Framework, Angular, PHP, Laravel, React Native, JavaScript

Software Engineer, Fuji TV Lab (Japan) — 2019

Fuji TV Lab is a research and development arm of Fuji Television, focusing on media innovation.

- Designed and developed interactive media applications to enhance user engagement with Fuji TV's digital platforms.
- Contributed to the development of a cutting-edge content delivery system for improving streaming performance.

Stack: JavaScript, HTML, CSS

Software Engineer 2, Northrop Grumman — Jan 2017–Sep 2017

Northrop Grumman is a leading global defense contractor.

- Developed a custom DSL (domain-specific language), streamlining simulation processes, resulting in a 25% reduction in training time.
- Installed and configured Atlassian tools (JIRA, Bitbucket) for a secure DevOps workflow, optimizing project management in a restricted environment.

Stack: C#, Qt, DevOps tools.

Software Engineer 1, Harris Corporation — June 2015–Dec 2016

Harris Corporation is a major defense contractor providing advanced technology solutions.

- Developed SkyFusion, an Angular web application improving air traffic management, using SWIM data exchange protocol.
- Created an automated testing framework in Python to validate the functionality of communication radios.
- Designed and developed an embedded radio system using C++, alongside its mobile controller in Android Studio.

Stack: Angular, Python, C++, Android Studio

Education

B.S.E. in Computer Science and Engineering
University of Michigan-Ann Arbor
GPA: 3.22 (Cum Laude)

Upper-Level Electives:

- **EECS 484: Database Management Systems**
Focuses on the principles of relational database design and implementation. Topics include SQL, query optimization, indexing, transaction processing, and concurrency control.
- **EECS 481: Software Engineering**
Covers software development methodologies (e.g., agile, waterfall), requirements analysis, design patterns, testing, and maintenance with an emphasis on building large-scale software systems.
- **EECS 492: Introduction to Artificial Intelligence**
Provides an overview of core AI concepts such as search algorithms, logic-based reasoning, probabilistic models, machine learning, and natural language processing.
- **EECS 493: User Interface Development**
Focuses on designing and implementing user-friendly interfaces, with attention to human-computer interaction principles, usability, and modern front-end technologies.

Ongoing Personal Projects

Showcasing capabilities (2020 to present)

- **Flowmazon (E-commerce):** Concept Amazon clone that allows you to browse a project catalog, add items to cart, and merge carts from anonymous to authenticated user. Purpose is to showcase a beautiful user interface (lacks true checkout functionality).
– Flowmazon Link: nextjs-ecommerce-app-chi.vercel.app
- **Revolut Fintech App:** WhatsApp clone using React Native and Gifted Chat to demonstrate messaging capabilities and showcase animations and tab bars.
– GitHub Link: github.com/jonathanpperry/revolut-fintech-clone

- **WhatsApp Clone (Messaging):** WhatsApp clone using React Native and Gifted Chat to demonstrate messaging capabilities and showcase animations and tab bars.
– GitHub Link: github.com/jonathanpperry/react-instagram
- **Jonny Ramen Blog (Blogging):** A live blog site built using Next.js, Contentlayer, and Tailwind CSS to share regular life updates with my community.
– Live Blog Link: jonnyramen.netlify.app
- **Reacstagram.com (Social Media):** Instagram project built with Firebase, Chakra UI, and Zustand state management to demonstrate CRUD database operations and create a fun product for my developer network.
– GitHub Link: github.com/jonathanpperry/react-instagram
- **Ionic Audio Player (Music):** Music Media Player using Ionic, a hybrid mobile application framework, that plays some predetermined royalty-free tracks available for download.
– Published to Play Store: play.google.com/store/apps/details?id=io.ionic.mediaplayer
- **Ionic Canvas Drawing App (Drawing/Art):** Canvas drawing application implemented in Ionic Framework that allows you to create drawings using an Etch-a-sketch-like model.
– Published to Play Store:
play.google.com/store/apps/details?id=io.jonnyramen.canvaspainter