Nicholas Curwood

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Summary

Aspiring Software Engineer with a strong academic foundation in Computer Science and Systems with a mix of practical and theoretical knowledge. My educational experience programming in object-oriented languages, JavaScript, and Python is complemented by my hands-on project experience in developing software solutions, conducting in-depth research, and applying agile methodologies to deliver ambitious solutions.

Project Experience

Portfolio Website   www.ncurwood.ninja   **2025**

JavaScript | HTML | CSS | ReactJS | CodeCommit | AWS | S3 | Route 53 | CloudFront
- Leveraged **JSX** to architect a dynamic **React** website showcasing professional background, educational takeaways, technical skill set, project descriptions, certifications, and a means of direct contact.
- Successfully hosted the site as a static webpage on **Amazon S3**, integrated with a personalized domain via **Route 53**, and globally distributed using **Amazon CloudFront** for optimized performance and delivery.

Retrieval-Augmented Generation (RAG) Chatbot   RAG_Bot.git   **2025**

Python | JavaScript | Flask | LangChain | ChromaDB | LM Studio | HTML | CSS | Hugging Face | Git
- Developed a **RAG-based AI chatbot** that enhances responses by retrieving **vectorized** knowledge from a **ChromaDB** database, integrating **LM Studio** for local inference.
- Created a responsive **chat interface** that provides factual responses with cited sources, ensuring accountability and traceability of information.
- Engineered **memory-efficient processing** that handles large document collections through streaming and batched operations.

Artificial Life Vision Research   Evolutionary_Roboting_Hunting_Gathering.git   **2023**

JavaScript | Python | HTML | SQL | Machine Learning | Git
- Collaborated in a 4-member team in an artificial life research venture, enhancing a virtual predator's hunting capabilities through binary vision.
- Implemented enhancements using **JavaScript** and utilized **Python** for key performance analysis, improving simulation realism.

Work Experience

Security Analyst I   **Transaction Network Services**   *Seattle, WA, USA*   **05/2024 - Present**
- *AWS Security Assessments* - Evaluated **AWS** resources to ensure secure **Kinesis** data stream configurations and appropriate restrictions on outbound internet access for **Elastic IP**s on TNS' **EC2** instances.
- *Software Request Reviews* - Reviewed and evaluated **enterprise-wide software requests**; gained familiarity with development technology capabilities and potential vulnerabilities to ensure compliance with **PCI DSS v4.0**.
- *Security Assessments* - Conducted assessments on user access to align with standards such as **NIST 3100, ISO 27001, PCI DSS, SOC 1, SOC 2,** and **GDPR** to identify, mitigate, and manage risks across multiple environments.

Algorithms Grading Assistant   **University of Washington**   *Tacoma, WA, USA*   **2023**
- Collaborated closely with Professor Chris Marriott in the TCSS 343 Algorithms course; efficiently evaluated and graded a class of 35 students
- Demonstrated an advanced understanding of **dynamic programming**, **recurrence relations**, and a wide array of algorithms enhancing the academic experience of students through detailed feedback and actionable insights

Education

Bachelor of Science   **University of Washington**   *Tacoma, WA, USA*   **2021 - 2023**

Computer Science and Systems: 3.92 GPA
- AI & Knowledge Acquisition (TCSS 435), Introduction to Natural Language Processing (TCSS 456)
- Database System Design (TCSS 445), Software Development & Quality Assurance (TCSS 360)
- Data Structures (TCSS 342), Design & Analysis of Algorithms (TCSS 343), Programming Language Concepts (TCSS 380)

Certifications

AWS Cloud Practitioner   **Amazon Web Services**   **Valid Until:**   **10/2026**

Security+   **CompTIA**   **Valid Until:**   **01/2027**

Skills
- Java | JavaScript | C# | Python | SQL | React | HTML | CSS | Git | Object Oriented Programming (OOP) | Amazon Web Services (AWS) | Dynamic Programming | Machine Learning | Backend Development | Full-Stack Development