

Nicholas Curwood

 [LinkedIn](#) |  (858) 900-5573 |  nickcdub@gmail.com |  [GitHub](#) | Gig Harbor, WA

Summary

Aspiring Software Engineer with a strong academic foundation in Computer Science and Systems with a mix of practical and theoretical knowledge. My 4+ years of experience programming in languages such as Java, C#, JavaScript, and Python are complemented by my hands-on project experience in developing software solutions, conducting in-depth research, and applying agile methodologies. My work in dynamic and collaborative environments demonstrates my ability to adapt and contribute effectively to team projects, underlined by a dedication to learning and applying new technologies in the field of software development.

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

Project Experience

Artificial Life Vision Research

https://github.com/Nickcdub/Evolutionary_Robotic_Hunting_Gathering_BinocularVision.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
- Technologies and Frameworks: **JavaScript, Python, SQL, Machine Learning, Git, HTML**

Sentiment Analysis Research

https://github.com/Nickcdub/Sentiment_Analysis_Project.git

- Conducted comparative research on Convolutional Neural Networks (CNN) versus Bag-of-Words (BoW) algorithms for sentiment analysis on X (Twitter) data, focused on the ethics of AI-generated art.
- Leveraged Python and the Keras API, achieving a 20% higher accuracy rate with CNN, demonstrating its superior efficacy in distinguishing sentiment within natural language
- Technologies and Frameworks: **Python, Keras API, Natural Language Processing, Machine Learning, Git**

Dungeon Adventure Game

<https://github.com/Nickcdub/mOOnQuest.git>

- Led a team of 3 to develop an intricate Java-based dungeon crawler game, featuring randomized layouts, diverse player classes, and a variety of enemies and bosses
- Adopted Agile methodologies such as Scrum and Continuous Integration to ensure rapid iteration progress while maintaining adaptability
- Resulted in a user-friendly and engaging game experience that exceeded expectations, coupled with robust technical documentation and evenly maintained code quality through bi-weekly code reviews
- Technologies and Frameworks: **Java, Git, SQL, Java Swing UI, Agile Methodologies, Object Oriented Programming (OOP), Model-View-Controller (MVC), Full-Stack Development**

Work Experience

Algorithms Teacher's Assistant

University of Washington

Tacoma, WA, USA

06/2023 - 08/2023

- Collaborated closely with Professor Chris Marriott in the TCSS 343 Algorithms course, efficiently evaluating and grading a class of 35 students
- Demonstrated in-depth expertise in dynamic programming, recurrence relations, and a wide array of algorithms enhancing the academic experience and understanding of students through detailed feedback and actionable insights

Dining Room Busser

Puerto Vallarta Mexican Grill

Gig Harbor, WA, USA

06/2021 - 04/2023

- Demonstrated exceptional teamwork and collaboration skills in a fast-paced dining environment, ensuring efficient operations and customer satisfaction
- Worked 20 hours per week while attending college full-time

Education

Bachelor of Science

University of Washington

Tacoma, WA, USA

09/2021 - 08/2023

- Computer Science and Systems: 3.92 GPA

Relevant Courses:

- 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)
- Technology in the Service of Society (TCSS 401), Human-Computer Interface (TCSS 452)

Certifications

AWS Cloud Practitioner

Amazon Web Services

Valid Until: 10/2026

- Foundational understanding of cloud technologies, including AWS core services, security tools, pricing models, Identity and access management, and deployment of resources

Security+

CompTIA

Valid Until: 01/2027

- Proficiency in Cybersecurity fundamentals, encompassing network security, risk management strategies, identification of security vulnerabilities, and implementation of threat mitigation techniques