

CADE LUEKER

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SUMMARY

PhD student studying Programming Languages with a depth of knowledge in the NodeJS ecosystem, Rust, Python, and Fullstack web design.

EDUCATION

PhD, Computer Science, Programming Languages & Verification	Enrolled Fall 2024
University of Colorado Boulder, <i>CUPLV Lab</i>	3.87 GPA
Researching Verification and Abstract Interpretation. Mainly using functional languages such as Scala and Ocaml for implementations.	
Relevant Coursework: Computer Aided Verification, Fundamental Concepts of Programming Languages	
BA, Computer Science	Graduated May 2022
Case Western Reserve University, Cleveland, OH	3.81 GPA
Relevant coursework: Algorithms, Data Structures, Programming Languages	

PUBLICATIONS

Cade Lueker, Andrew Fox, Bor-Yuh Evan Chang.
Towards Cumulative Abstract Semantics via Handlers.

Proceedings of the ACM SIGPLAN Workshop on Partial Evaluation and Program Manipulation (PEPM 2026), co-located with POPL 2026. Short paper.

EXPERIENCE

Aarhus University, Denmark: Guest Researcher	May 2025 – July 2025
• Developing the effect-oriented programming language, Flix , in Professor Magnus Madsen's lab.	
• Contributing to the Flix standard library, implementing OS and Networking libraries.	
• Using the new JDK24 bytecode manipulation APIs to prototype a more robust Scala backend for the Flix compiler.	
Unlimited Technologies Pte Ltd., Remote: Software Engineer	February 2024 – September 2024
• Working under the parent company of Vertex Protocol on their Quarry Mining Pool.	
• Mainly tasked with writing and deploying new smart contracts, using Solidity, NodeJS, Python, and Rust .	
• Using Rust , I created a local Ethereum runtime to test and build oracles to interact with on chain contracts.	
• I created the front end application for the Quarry mining pool using SvelteKit and PostgreSQL .	
Publicis Sapient, Denver, CO: Associate Software Engineer	August 2022 – November 2023
• Delivering production ready code for clients in the Salesforce ecosystem.	
• Mainly Integrating JavaScript front ends with Apex back ends.	
• Sped up average customer conflict resolution by 5 times for client with Salesforce CRM implementation.	
Bluescape, Cleveland, OH: Test Automation Engineer Intern	March 2022 – July 2022
• Wrote, edited, and reviewed tests written with Jest for the production Bluescape JavaScript front end.	
• Ensured test viability and compatibility via GitHub Deployments .	
• Demonstrated comprehensive knowledge of best practices with respect to documentation and test design.	

TECHNICAL SKILLS

Web: JavaScript, Svelte, Tailwind, Bootstrap, Vue, Django, Flask

Programming: JavaScript, Rust, Python, Scala, Solidity, Ocaml

Certifications: Salesforce JavaScript Dev I