





## Ethan Williams

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### WORK EXPERIENCE

**Trend Micro** – Senior Software Engineer, Austin, TX February 2021 - Present

- **Kubernetes Compliance Scanning** – *Golang, Serverless, AWS, Kubernetes, Helm*
  - Led project to scan Kubernetes cluster configurations. Designed AWS backend architecture and coordinated project goals based on customer needs to ensure compliance standards.
  - Built backend API and Docker image to trigger scans on user clusters, manage configuration and state, and store scan results, enabling customers to verify compliance standards on Kubernetes clusters.
- **Cloud Container Security** – *Golang, Serverless, AWS, Kubernetes, Helm*
  - Designed and implemented custom security rules feature to support customer defined runtime security rules for Kubernetes clusters, alerting customers to custom security events.
  - Built AWS backend scheduled inventory collection feature to collect and store customer resource data.
- **Cloud Network Security** – *Python, Serverless, Terraform, AWS*
  - Designed and implemented AWS backend scheduled scan to retrieve metrics from customer cloud infrastructure to monitor health of customer resources, providing information for business priorities.
  - Designed intern project and mentored two interns to implement Restful APIs in AWS Lambda, decreasing required number of API calls by 95%.
- **Device Health Tool** – *Node.js, SQL, React, Serverless, AWS*
  - Built React web app with AWS backend to analyze customer device health, empowering customer support to triage customer device issues.

**Trend Micro** – Software Intern, Austin, TX June 2020 - August 2020

- **Device Telemetry Parsing:** Built AWS Lambda API and workflow to parse unstructured customer appliance log and configuration data into JSON, aggregated in AWS Athena data lake.

**SnapStream** – Software Intern, Houston, TX May 2019 - August 2019

- **Channel Filters:** Designed and created user UI filtering feature to create, edit, delete Channel Groups to manage customer recording channels in HTML, jQuery, .NET and SQL backend.

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### EDUCATION

**The University of Texas at Austin, BS Computer Science** GPA 3.83, 2016 - 2020

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### PROJECTS

**AI Hackathon Competition** – *Python, GPT-4* 2024

- Designed and implemented GPT-4 based tool to update code files when given a list of breaking changes for dependencies. Led a team of 18 to integrate the tool with GitHub and CVE tracking.

**Terrain A\* Pathfinding** – *C#, Unity, Godot* 2024

- Modified A\* algorithm for height difference-aware pathfinding on Simplex noise terrain.

**Don't Roast, 2D Game Dev Capstone** – *C#, Unity* 2019

- Worked in team of 7 to develop 2D boss rush game.

**Audemos** – audemos.space – *AWS (S3, Lambda), Serverless, JavaScript, HTML* 2019

- Built audio sharing website with temporary file storage and audio playback.

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### SKILLS

Technologies: Kubernetes, Docker, Node.js, React, .NET, AWS, Serverless, Terraform, Helm, Linux, Git, Github Actions, Unity, Godot

Languages: Golang, Python, JavaScript, C#, Java, C++, C, SQL, Bash