

## Work Experience

<b>Rust Developer</b> ALPM project	<b>Arch Linux</b> Remote/contract	<b>Oct 2024 – Dec 2025</b>
<ul style="list-style-type: none"><li>• Modernizing the Arch Linux packaging ecosystem with Rust tooling &amp; libraries.</li><li>• Writing specifications for the legacy file formats used in the Pacman package manager.</li><li>• Implementing the specifications via custom parsers built with Winnow.</li><li>• Integrating package creation, consumption, and repository management workflows.</li><li>• This work is funded by Sovereign Tech Agency: <a href="https://www.sovereign.tech/tech/arch-linux-package-management">https://www.sovereign.tech/tech/arch-linux-package-management</a></li><li>• Project web page: <a href="https://alpm.archlinux.page">https://alpm.archlinux.page</a></li></ul>		
<b>Rust Developer</b> Paid open source contributor	<b>Prefix.dev</b> Remote/contract	<b>Jan 2024 – Apr 2024</b>
<ul style="list-style-type: none"><li>• Worked on the Conda package builder called “rattler-build”.</li><li>• Implemented low-level features such as binary relocation, RPATH manipulation, linking checks, and relinking.</li><li>• Performed overall project maintenance and performance optimizations.</li><li>• Contributed to social media strategy and provided Developer Relations (DevRel) support.</li></ul>		
<b>Rust Developer</b> Paid open source contributor	<b>Shuttle</b> Remote/contract	<b>Aug 2023 – Dec 2023</b>
<ul style="list-style-type: none"><li>• Contributed to multiple areas of the Shuttle platform, including repository maintenance, logger service, and infrastructure improvements.</li><li>• Supported Developer Relations (DevRel) through the creation of social media content and community engagement.</li></ul>		
<b>Rust Developer</b> Backend	<b>sMiles: Bitcoin Rewards</b> Remote/contract	<b>Apr 2021 – May 2024</b>
<ul style="list-style-type: none"><li>• Responsible for backend development and database management to support new mobile app features.</li><li>• Implemented affiliate shopping, Firebase Cloud Messaging (FCM), and several internal utilities.</li><li>• Enhanced API security by implementing custom alerts and introducing preventive measures against potential attacks.</li><li>• Maintained a full-stack backend/web application, collaborating closely with the team to deliver custom solutions.</li></ul>		
<b>Internship</b> Backend	<b>Evyon</b> Oslo, Norway	<b>Summer 2022</b>
<ul style="list-style-type: none"><li>• Designed and implemented a <b>microservice architecture</b> for <b>EV battery solutions</b>.</li><li>• Developed and deployed <b>Rust-based microservices</b> using the <b>Axum framework</b> on <b>Google Cloud Platform (GCP)</b>.</li></ul>		
<b>Platform Engineer</b> Container team	<b>Trendyol</b> Remote	<b>Nov 2021 – May 2022</b>
<ul style="list-style-type: none"><li>• Worked as a member of the Container Team responsible for cloud infrastructure management.</li><li>• Implemented solutions for Kubernetes-related challenges, focusing on performance, availability, security, and reliability improvements.</li><li>• Gained hands-on experience with various cloud-native tools and container orchestration technologies.</li></ul>		

## Education and Certifications

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- **B.Sc. Software Engineering**, Çankaya University, Ankara/Türkiye.

2019–2023

## Technologies and Languages

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- **Programming**: Rust, Zig, Go, C, C#, Python, Java, JavaScript, TypeScript, Shell Scripting
- **Linux**: Packaging, Automation, Reproducible Builds, CLI Tooling
- **System Administration**: AWS EC2, Nginx, Home Server Management
- **Build Tools**: Cargo, Make, CMake, NPM
- **Networking**: DNS, TCP/IP, UDP, NAT
- **Database Management**: MySQL/MariaDB, PostgreSQL, MongoDB, Redis, Firebase, Neo4j
- **Backend Development**: REST, JSON API, GraphQL, gRPC, SSL/TLS, Authentication
- **Testing**: JUnit, Mockito, Selenium/WebDriver
- **DevOps**: Cloud-Native Applications, Containerization (Docker), Version Control (GitOps), Message Brokers (RabbitMQ), Monitoring (Prometheus & Grafana), Kubernetes (Kubespray, Minikube), CI/CD (GitLab, GitHub Actions), Google Cloud Platform (Cloud Run, Cloud Storage, Pub/Sub, IoT Core), Profiling (Flamegraph), Logging, Benchmarking, Telemetry
- **Embedded**: Microcontrollers, IoT (Arduino, Raspberry Pi, ESP32, Microchip), PCB Design (Proteus, EasyEDA), Serial Communication, Circuit Prototyping
- **Security**: Binary & Malware Analysis, Cryptography, Supply Chain Security, Web & API Security

## Projects

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- **Ratatui** – Lead maintainer (2023 – Present)  
Open source Rust library for building rich Terminal User Interfaces (TUIs) that powers hundreds of open-source and commercial projects. 10 million+ downloads, 15k+ stars and used by e.g. OpenAI, Netflix.  
<https://github.com/ratatui>
- **git-cliff** – Creator/maintainer (2020 – Present)  
A highly customizable and widely adopted changelog generator that automates release notes from Git history.  
<https://git-cliff.org>
- **Other**:  
I have worked on open source projects for 8 years and since then I have pushed 29k+ commits, opened 700+ issues, submitted 1500+ PRs, received 20k+ stars across 100+ personal projects and contributed to many public repositories.  
<https://github.com/orhun>

## Community Involvement

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- Since 2020, I have delivered numerous talks and workshops, and community events, sharing knowledge on Rust, open source development, terminal user interfaces (TUIs) and embedded applications across international conferences and meetups.  
Recorded talks: <https://youtube.com/playlist?list=PLxqHy2Zr5TiVVrNU19xVR07M9Jqb0XzFq>
- I have a YouTube channel featuring live-coding sessions, technical deep dives/discussions, and podcast episodes.  
<https://www.youtube.com/@orhundev>