

# Nicholas Orlowsky

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## EDUCATION

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### The University of Texas at Austin

Austin, TX

*Bachelor of Science in Computer Science, Minor in Business*

*August 2021 – May 2025*

**Relevant Classes:** Data Structures, Discrete Mathematics, Algorithms & Complexity, Principles of Operating Systems, Virtualization, Computer Networks, Data Management, Modern Web Applications, Principles of Machine Learning

## EXPERIENCE

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### Software Engineer Intern

May 2023 – Present

*FUTO*

*Austin, Texas*

- Built, maintained, and optimized Gitlab CI pipelines leading to a performance increase of 75%
- Improved search order value by 20% by integrating Elasticsearch ingest and search capabilities into a Rust API
- Reduced time spent provisioning resources by 90% by using Terraform and Ansible to define infrastructure

### Software Engineer Contractor

September 2021 – Present

*Casino Comp Wallet*

*Huntington Station, New York (Remote)*

- Completed database migration of 15K+ users from a self-hosted Postgres server to AWS RDS without incident
- Developed advertising system which served 10,000+ impressions using S3, Ruby, Rails, React Native, Postgres
- Added live-streaming video feature to support brand influencers. Capable of delivering high quality live video to thousands of users with low latency. Built with C#, Cloudflare Stream, Redis, Postgres, and React Native

### Software Engineer Intern

May 2022 – August 2022

*The Home Depot*

*Atlanta, Georgia (Remote)*

- Created dependency management system for internal tooling using React, Node, MongoDB, and Github Actions, saving over 500 engineering hours annually
- Reduced unnecessary code in HomeDepot's automotive website section, cutting client-side JavaScript by ~10%

### Software Engineer Contractor

March 2021 – September 2021

*Chick's Group*

*Mississauga, Ontario (Remote)*

- Reduced cart abandonment by 1.4% by implementing design specifications in a web app Aurelia and JavaScript
- Collaborated in a team of 12 to maintain a backend using ASP.NET, MySQL, and Redis with 10,000+ active users

### Highschool Data Science Intern

August 2019 – March 2021

*Expedia Group*

*Austin, Texas*

- Saved \$200,000+ in revenue using an NLP model trained with RLHF to filter messages, reducing offsite bookings
- Analyzed and labeled 10,000+ training data samples using Python, pandas, NumPy, Appen, and Jupyter notebook
- Facilitated implementation of a sentiment analysis NLP model trained using RLHF to judge a property's quality from the text of reviews, enhancing the value of search ordering by 8%

## PROJECTS

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**Nick Web Services** | *Docker, Kubernetes, Rancher, HAProxy, C#, Cloudflare*

<https://nws.nickorlow.com>

- Created a network of 4 geographically distributed bare metal servers hosting web applications on Kubernetes
- Maintained 100% up-time for 2023 YTD on hosted services due to health monitoring and failover

**Open Source Contributions** | *Go, C#, CSS, HTML*

- Developing a feature for the .NET runtime allowing Console.ReadLine to support editing with arrow keys on Unix
- Fixed issue in the Kubernetes NGINX ingress controller relating to Cgroups compatibility using Go
- Fixed styling issue in the web UI for Argo CD using CSS and HTML
- Fixed issues in the documentation of projects such as Microsoft's .NET runtime and Trivago's Hamara

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, C, C++, C#, Java, Rust, SQL (Postgres, Microsoft, MySQL), Go, PHP

**Frameworks/Libraries:** Node.js, pandas, NumPy, React Native, React, ASP.NET, Actix, Svelte, Aurelia

**Tools/Technologies:** Kubernetes, Docker, Linux, Git, Elasticsearch, GCP, AWS, Azure, MongoDB, CI/CD, Cloudflare, Grafana, InfluxDB, Kafka, Rancher, ArgoCD, Terraform, Ansible