Michael Wolf | Developer

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POSITIONS AND CONTRACTS

July 2022 - Present	Justice Project Pakistan / Interim Co-CTO / Strategy Consultant Assessed and stabilized mismanaged project. Recovered and verified React Native deliverables and associated infrastructure from outgoing project lead and his subordinates. Briefed stakeholders on project scope and path to recovery. Interviewed full-time CTO candidates. Currently, acting as liaison between CEO and new hire.
April 2022 - June 2022	UN Department of Management Strategy, Policy and Compliance / Developer Researched and wrote tests for several 3D visualization stacks. Wrote API serialization infrastructure encapsulating BabylonJS, D3, and custom framework calls in a JSON config file. Created initial proof of concept app leveraging Electron, React, Google Blocks.
September 2019 - February 2021	Justice Project Pakistan / Dataset Curation, Full-Stack Developer Projects: Create a mixed qualitative and quantitative dataset for instances of torture in Pakistan and at the Baghram facility in Afghanistan. Built out torture survey tool, associated AWS infrastructure (DynamoDB, API Gateway, Lambda, Cognito), administration tools and narrative website with aggregate visualizations using GitHub hosting and API.
May 2020 - July 2021	UN Department of Management Strategy, Policy and Compliance / Developer Projects: Created and maintained internal budgetary visualizations, documentation, JS dependency manager, internal live-coding website, and other team development tools. Contributed to Harvest data visualization toolkit. Created SVG, Canvas(2d), WebGL(3d) rendering backends for JS GGPlot grammar parser.
January 2014 - June 2020	Parsons The New School for Design / Part-Time Lecturer Courses: Open Frameworks (MFA Design and Technology); Web 1 (BFA Communication Design); Core Physical Computing Lab 2nd year, 3rd year (BFA Design and Technology); Core Physical Computing Studio 3rd year (BFA Design and Technology) Workshops: Raspberry Pi & Linux (Faculty Development); Physical Computing (1st year orientation) Member of curriculum steering committee
July 2015 - February 2016	DESIS Lab at Parsons / Web Technology Developer Project: Designing for Financial Empowerment. Developed digital web services for Volunteer Income Tax Assistance program; Architected technical feature-set and consulted on implementation

August 2011 - June 2013	Bard Prison Initiative, Bard College / Adjunct Professor, IT Systems Developer Courses: Introduction to Programming, Advanced Python, HTML, Javascript,Independent Studies in Web Infrastructure and Apps Additional Duties: Advised on curriculum build-out, Systems Administration: Administered systems including highly available disk, session and web services; Designed and implemented network build-out; Coded ancillary tools; Trained technical staff
2002 - 2010	Freelance Programmer Contributed to Kernel Test Suites; Worked on Hardware Evaluation Rigs, Software Engineer, Web development, Content control, German/English translation
1997 - 2000	Aptis/Nortel Incorporated / Software Engineer Worked on Carrier Class Switch project (CVX 1800); Wrote realtime modem drivers for Motorola Dragonball/ARM SoftModems; Wrote call simulation software for WinNT; Wrote and maintained manufacturing test harness for 1344 modem devices; Wrote ancillary test tools under Linux
1996 - 2001	Microcom Incorporated / Software Engineer Debugged/wrote networking stacks, device drivers; Brought up new hardware, emulation tools; Wrote C code for embedded T1, Pri, Modem, and Management cards; Wrote 68k assembly; Debugged/wrote chip diagnostics
1996 - 1997	K2Net Incorporated / IT Contractor Modified Linux driver code to inject errors for IP testbed; Trained employees in use of drivers, and basic IP networking
1995 - 1996	Wordstock Incorporated / Software Engineer Wrote C for a distributed POS/inventory system; Analyzed and resolved problems on an IP network; Consulted on creation, and maintenance of IP network; Contributed to next generation beta product; Consulted with clients regarding transition to TCP/IP

EDUCATION

August 2016 - May 2019	MS Data Visualization Parsons The New School for Design / 2019, New York City, NY Master's Thesis: Collaboration with UNDPPA on Sustainable Development Goals with a Sahel focused Team Research Assistant for Daniel Sauter: Android Framework development, Blockchain development Department Freelance for Aaron Hill: Creation of student project website
August 1990 - May 1994	BS Computer Science University of Hartford / 1994, Hartford, CT Student Worker: Sr. Programmer/Systems Administrator

SKILLS

SciPy, Node, D3, OpenFrameworks, PaperJS, ThreeJS, BabylonJS, React, Vue

AWS Elastic Beanstalk, C9, RDS, DynamoDB, API Gateway, Cognito, Lambda, Cloud Formation (via Serverless), Google Apps Script

Python, C++, JavaScript, Java, Various Microcontrollers

Machine Learning, Embedded hardware development, NPM Package Creation

Linux, Android, Various RTOS

LANGUAGES

English (native), German (advanced)