



COMPANY

Tunoptix is a fast-growing startup focused on revolutionizing the way optical systems are conceptualized, designed, and manufactured using nanotechnology and semiconductor processing. We combine semiconductor-defined meta-optics with advanced, AI-based image processing and proprietary design techniques to enable next-generation cameras. Tunoptix products will expand possibilities in the fields of machine vision, consumer electronics, medical endoscopy, 3D imaging, and hyperspectral imaging.

Tunoptix is an emerging leader in meta-optics and computational imaging and was founded to commercialize disruptive meta-optical technologies developed in the research groups of professors Arka Majumdar and Karl Bohringer at the University of Washington. We have raised venture funding from IP Group as well as from major government funding organizations including DARPA and NASA. Tunoptix is also a member of the vibrant startup community at the University of Washington CoMotion Fluke Labs incubator.

[Tunoptix Website](#)

POSITION – Senior Software Developer, Full Stack

Reporting to the Director of Optical Design, the Senior Software Developer, Full Stack will collaborate with a talented team of engineers and scientists to help build out and deploy the front end and back end of our platform. As a senior position, this role will involve leading work across multiple software engineering disciplines including software development, site reliability engineering, and software test. Specific tasks will focus on implementing internally prototyped codebases and algorithms into an optimized and deployable form. This is an exciting opportunity for a highly motivated and capable engineer to help shape next-generation imaging systems for industrial machine vision, medical instrumentation, automobiles, robotics, and consumer electronics.

LOCATION: Seattle, WA

RESPONSIBILITIES

- Work closely with the Company's founders and technical team to lead and drive front-end and back-end development
- Optimize and implement internal algorithms in low-level languages (C/C++/CUDA).
- Lead the development of the customer-focused, client-facing graphical user interface
- Lead the deployment of the packaged front end and back end on Windows/Linux systems
- Mentor other members of the technical team in best practices and domain specific expertise
- Assist in instating software testing, version control, and documentation frameworks
- Assist in the development of internal tools
- Assist in providing customer support for shipped Tunoptix systems

QUALIFICATIONS



- Minimum of a Bachelor's degree in Computer Science, Computer Engineering, or equivalent 5 years work experience
- Prior experience in a senior/lead engineering role
- Strong grasp of mathematical algorithms and their time/memory complexity
- Proficiency in developing with cross-platform Python, C/C++, and CUDA
- Previous experience developing with TensorFlow, OpenCV, and Qt or equivalents
- Good understanding of system software including Linux and Windows OS
- Experience with industry version control best practices and tools
- Hands-on experience with cross-platform software development and deployment of GPU-accelerated programs
- Relevant experience in software development for computer vision applications is a plus
- Experience with developing for Nvidia Jetson platform is a plus
- Strong interpersonal and technical communication skills
- Ability to bridge technology development with commercial demands
- Familiar with the startup or early-stage business environment
- Entrepreneurial spirit, with a hands-on, roll-up-the-sleeves mentality

WHAT WE OFFER

- Competitive Compensation Package, including equity
- Full benefit package: Medical, Dental, and Vision Plans
- Insurance: Company paid Life and Disability insurance
- Medical savings accounts: FSA and HSA accounts
- Paid time off: Vacation and sick time

COVID-19 PRECAUTIONS

- Remote interview process
- Personal protective equipment provided or required
- Social distancing guidelines in place
- Virtual meetings

EEO Statement

Tunoptix is proud to be an Equal Employment Opportunity and Affirmative Action employer. We do not discriminate based upon race, religion, color, national origin, gender (including pregnancy, childbirth, or related medical conditions), sexual orientation, gender identity, gender expression, age, status as a protected veteran, status as an individual with a disability, or other applicable legally protected characteristics.

APPLY

If you are interested in the role, please send your resume to John.Fijol@ipgroup-inc.com